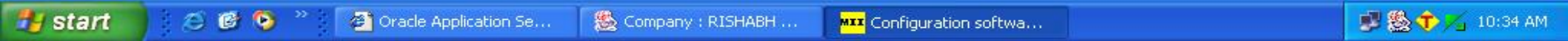


Select the device like M24,M42,M00,M40 (Pre-selection of the device type) then,\*CLICK OK



# MXX Programming - Input Configuration

Click on 'Input' button for **Input configuration**.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

Device type: **Multi-Transducer RISH Ducer M42**  
- 4 analog outputs  
- 2 digital outputs

**CLICK HERE**

**Input**

- \* Voltage Ur: 100.0V
- \* Current Ir: 1.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

Information text

**Output A** Analog output: not used

**Output B** Analog output: not used

**Output C** Analog output: not used

**Output D** Analog output: not used

**Output G** Digital output: not used

**Output H** Digital output: not used

start | Oracle Application Se... | Company : RISHABH ... | MXX Configuration softwa... | Untitled 1 - OpenOffi... | 10:35 AM

# MXX Programming - Input Configuration

Enter Primary & Secondary value and select Rated frequency, Frequency measurement & System configuration as per customer requirement. Then Click on 'OK' button.

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Input definition...**

Rated voltage **L-L**

Rated current

Primary

0.4 kV

5 A

Secondary

400 V

5 A

Rated frequency:

☐ 16 2/3 Hz ☒ 50 Hz ☐ 60 Hz

Frequency measurement:

via voltage

System configuration

☒ 4-wire system, asymmetrical  
☐ 3-wire system, asymmetrical (Aron)  
☐ 4-wire system, asymmetrical (Open-Y)  
☐ 4-wire system, balanced load  
☐ 3-wire system, balanced load  
☐ Single-line system  
☐ 3-wire system, balanced load (U12, I1)  
☐ 3-wire system, balanced load (U31, I1)  
☐ 3-wire system, balanced load (U23, I1)

OK

Cancel

Information text

Frequency measur.: via voltage

Configuration: 4-wire system, asymmetrical

Output B

Analog output:  
not used

Output D

Analog output:  
not used

Output G

Digital output:  
not used

Output H

Digital output:  
not used

start

Oracle Application Se... Company : RISHABH ... MXX Configuration softwa... Untitled 1 - OpenOffi...

10:37 AM

# MXX Programming - Analogue Output Configuration

Click on 'Output A', 'Output B', 'Output C', 'Output D' button for Analogue Output configuration.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

Device type: **Multi-Transducer RISH Ducer M42**  
- 4 analog outputs  
- 2 digital outputs

Information text

**Input**

- \* Voltage Ur: 100.0V
- \* Current Ir: 1.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**CLICK HERE**

**Output A** Analog output: not used

**Output B** Analog output: not used

**Output C** Analog output: not used

**Output D** Analog output: not used

**Output G** Digital output: not used

**Output H** Digital output: not used

start Oracle Application Se... Company : RISHABH ... MXX Configuration softwa... Untitled 1 - OpenOffi... 10:35 AM

# MXX Programming - Analogue Output Configuration

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

### Analog output A

**Measurand**  
not used

**Output type**  
☒ Current output  
☐ Voltage output

**Input**  
X0  
X1  
X2

**Output**  
Y0  
Y1  
Y2

**Measurement cycle**  
Ydel < 0.23  
☒ Minimal

Ymin  
Ymax

OK Cancel Graphic

Information text

via voltage  
n:4-wire system, asymmetrical

Analog output:  
not used

Analog output:  
not used

Digital output:  
not used

Digital output:  
not used

Output C

Output D

Output G

Output H

start Oracle Application Se... Company : RISHABH ... MXX Configuration softwa... Untitled 1 - OpenOffi... 10:38 AM

# MXX Programming - Analogue Output Configuration

Select Output parameter like Measurand, Output Type & Enter Input & Output Value as per the customer requirement.

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

### Analog output A

**Measurand**

- Active power
- not used
- Voltage
- Average voltage  $(U1N+U2N+U3N)/3$
- Current
- Average current  $(I1+I2+I3)/3$
- Bimetal current function
- Slave pointer function current
- Active power
- Reactive power
- Apparent power
- Active power factor P/S
- LF factor  $SgnQ(1-|P/S|)$
- Reactive power factor Q/S
- Frequency

**Output type**

☒ Current output

☐ Voltage output

Ymin: -25.00 mA Ymax: 25.00 mA

☒ Minimal

OK Cancel Graphic

Information text

via voltage  
n:4-wire system, asymmetrical

Analog output :

|          |       |    |
|----------|-------|----|
| P        |       |    |
| 0 ...    | 3464  | W  |
| 4.00 ... | 20.00 | mA |

Analog output :

|          |       |    |
|----------|-------|----|
| U1N      |       |    |
| 0.0 ...  | 230.9 | V  |
| 0.00 ... | 20.00 | mA |

Output C

|           |       |    |
|-----------|-------|----|
| II        |       |    |
| 0.000 ... | 5.000 | A  |
| 0.00 ...  | 20.00 | mA |

Output D

Digital output:  
not used

Output G

Digital output:  
not used

Output H

Digital output:  
not used

# MXX Programming - Analogue Output Configuration

The Ymin & Ymax are showing minimum & maximum limits of the outputs.  
Click on 'Graphic' Button to see the input & output Characteristics.

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

### Analog output A

**Measurand**

Active power  
Phase 1

**Output type**

☒ Current output  
☐ Voltage output

**Input**

X0 -1154.7  
X1  W  
X2 1154.7

**Output**

Y0 -20.00 Ymin -25.00  
Y1  mA Ymax 25.00  
Y2 20.00

**Measurement cycle**

Ydel < 0.25 s  
☒ Minimal

OK Cancel Graphic

Information text

via voltage  
n:4-wire system, asymmetrical

**Out put Min Max Value**

Analog output:  
not used

Analog output:  
not used

Output C not used

Output D not used

Output G Digital output:  
not used

Output H Digital output:  
not used

# MXX Programming - Analogue Output Configuration

## Bi-polar configuration

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

### Analogue output A

**Measurand**

Active power  
System

**Output type**

☒ Current output  
☐ Voltage output

**Input**

X0 -3464  
X1  W  
X2 3464

**Output**

Y0 -20.00  
Y1  mA  
Y2 20.00

Ymin -25.00  
Ymax 25.00

**Measurement cycle**

Ydel < 0.33 s  
☒ Minimal

OK

**Output C**

|           |       |    |
|-----------|-------|----|
| 0.000 ... | 5.000 | A  |
| 0.00 ...  | 20.00 | mA |

**Output G**

Digital output:  
not used

Information text

via voltage  
n:4-wire system, asymmetrical

### Analogue output A

**Input**

X0 -3464  
X1  W  
X2 3464

**Output**

Y0 -20.00  
Y1  mA  
Y2 20.00

Back

# MXX Programming - Analogue Output Configuration

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

### Analog output B

**Measurand**

Active power  
System

**Output type**

☒ Current output  
☐ Voltage output

**Input**

X0 0  
X1 W  
X2 3464

**Output**

Y0 4  
Y1 mA  
Y2 20.00

Ymin -25.00  
Ymax 25.00

**Measurement cycle**

Ydel < 0.28 s  
☒ Minimal

OK Cancel Graphic

Information text

via voltage  
n:4-wire system, asymmetrical

Analog output:  
not used

Analog output:  
not used

Digital output:  
not used

Digital output:  
not used

Output C

Output D

Output G

Output H

start Oracle Application Se... Company : RISHABH ... MXX Configuration softwa... Untitled 1 - OpenOffi... 10:39 AM

# MXX Programming - Analogue Output Configuration

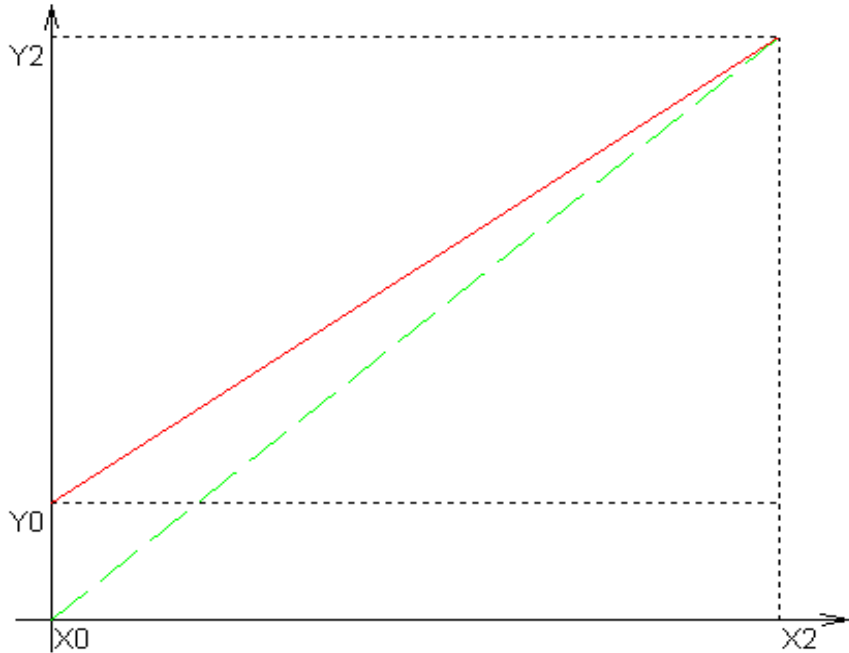
## Uni-polar configuration

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

### Analog output B



**Input**

X0

X1

X2

**Output**

Y0

Y1

Y2

Back

Information text

via voltage  
n:4-wire system, asymmetrical

Output C not used

Output D not used

Output G Digital output:  
not used

Output H Digital output:  
not used

start

Oracle Application Se...

Company : RISHABH ...

MXX Configuration softwa...

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10:40 AM

# MXX Programming - Digital Output Configuration

Click on 'Output G', 'Output H', button for Digital Output configuration.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

Device type: **Multi-Transducer RISH Ducer M42**  
- 4 analog outputs  
- 2 digital outputs

Information text

**Input**

- \* Voltage Ur: 100.0V
- \* Current Ir: 1.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A** Analog output: not used

**Output B** Analog output: not used

**Output C** Analog output: not used

**Output D** Analog output: not used

**Output G** Digital output: not used

**Output H** Digital output: not used

**CLICK HERE**

# MXX Programming - Digital Output Configuration

For M24 Click on 'Output E', 'Output F', 'Output G', 'Output H', button for **Digital Output configuration**.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Device type: Multi-Transducer RISH Ducer M24**  
- 2 analog outputs  
- 4 digital outputs

**MXX**

Information text

**Input**

- \* Voltage Ur: 100.0V
- \* Current Ir: 1.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output:  
not used

**Output B**

Analog output:  
not used

**Output E**

Digital output:  
not used

**Output F**

Digital output:  
not used

**Output G**

Digital output:  
not used

**Output H**

Digital output:  
not used

**CLICK HERE**

Start Oracle Applicat... Company : RIS... Inbox - Outloo... Microsoft Powe... C:\ MXX Configuration... 1:45 PM

# MXX Programming - Digital Output Configuration

Select 'Limit monitoring' for limit configurations.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

Dev Used for ...

☐ Pulse output (with internal meter)

☒ Limit monitoring

OK Cancel

Information text

\* Frequency measur.: via voltage

\* System configuration: 4-wire system, asymmetrical

|          |                             |          |                             |
|----------|-----------------------------|----------|-----------------------------|
| Output A | Analog output:<br>not used  | Output B | Analog output:<br>not used  |
| Output C | Analog output:<br>not used  | Output D | Analog output:<br>not used  |
| Output G | Digital output:<br>not used | Output H | Digital output:<br>not used |

Start Oracle Applicat... Company : RI... Inbox - Outloo... Microsoft Powe... C:\ MXX Configuration... 1:58 PM

# MXX Programming - Digital Output Configuration

Select Limit 1/2/3 & Enter Input Range & select 'High Limit' or 'Low limit'.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

Device type: Multi-Transducer RISH Ducer M24

**Limit signal G**

**Limit 1**

not used  
not used  
Voltage  
Average voltage  $(U1N+U2N+U3N)/3$   
Current  
Average current  $(I1+I2+I3)/3$   
Bimetal current function  
Slave pointer function current  
Active power  
Reactive power  
Apparent power  
Active power factor P/S  
LF factor  $SgnQ(1-|P/S|)$   
Reactive power factor Q/S  
Frequency

☐ High alarm ☒ Low alarm

**Switch-in delay**

0.23 ... 0.46 [ s ] ☒ Minimal

**Alarm condition**

☒ Output ON  
☐ Output OFF

**Logic operation**

☐ OR  
☒ AND

**Limit 3**

not used

min

☐ High limit ☒ Low limit

OK Cancel

Information text

age  
system, asymmetrical

Analog output:  
not used

Digital output:  
not used

Output G

Digital output:  
not used

Output H

Digital output:  
not used

Start Oracle Appl... Company :... Inbox - Out... Microsoft P... C:\Docume... Adobe Acro... MXX Configurat... 2:12 PM

# MXX Programming - Digital Output Configuration

**MXX Configuration software for RISH Ducer MXX**

File Device tune Measurement acquisition Service Options Help

### Limit signal G

**Limit 1**

Active power  
System  
3464 W min  
☒ High alarm ☐ Low alarm

**Switch-in delay**  
0.36 ... 0.73 [ s ] ☒ Minimal

**Alarm condition**  
☒ Output ON  
☐ Output OFF

**Logic operation**  
☐ OR  
☒ AND

**Limit 2**

Current  
Phase 1  
5.005 A min  
☒ High alarm ☐ Low alarm

**Limit 3**

Current  
Phase 1  
4.995 A min  
☐ High limit ☒ Low limit

OK Cancel

**Information text**

age  
system, asymmetrical

**Analog output :**  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

**Analog output :**  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

**Analog output :**  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

**Digital output:**  
not used

**Output H**

**Digital output:**  
not used

start Oracle Application Se... Company : RISHABH ... MXX Configuration softwa... Untitled 1 - OpenOffi... 10:45 AM

# MXX Programming - Digital Output Configuration

Note : Output 'G' & 'H' of the limit outputs up to three measurands can be logically combined.

MXX Configuration software for RISH Ducer MXX

File Device tune Measurand acquisition Service Options Help

### Limit signal H

**Limit 1**  
Active power  
System  
3464 W min  
☒ High alarm ☐ Low alarm

**Switch-in delay**  
0.39 ... 0.79 [ s ] ☒ Minimal

**Alarm condition**  
☒ Output ON  
☐ Output OFF

**Logic operation**  
☐ OR  
☒ AND

**Limit 2**  
Frequency  
-  
55.00 Hz min  
☒ High alarm ☐ Low alarm

**Limit 3**  
Frequency  
-  
45.00 Hz min  
☐ High limit ☒ Low limit

OK Cancel

**Output C**  
Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**  
Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**  
Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

**Output H**  
Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

Information text

age  
system, asymmetrical

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

start Oracle Application Se... Company : RISHABH ... MXX Configuration softwa... MXX.ppt - OpenOffic... 10:52 AM

# MXX Programming - Digital Output Configuration

Select 'Pulse output (with internal meter)' for Pulse output configurations.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

Used for ...

- ☒ Pulse output (with internal meter)
- ☐ Limit monitoring

OK Cancel

Information text

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :

|            |       |    |  |
|------------|-------|----|--|
| P          |       |    |  |
| -3464 ...  | 3464  | W  |  |
| -20.00 ... | 20.00 | mA |  |

**Output B**

Analog output :

|          |       |    |  |
|----------|-------|----|--|
| P        |       |    |  |
| 0 ...    | 3464  | W  |  |
| 4.00 ... | 20.00 | mA |  |

**Output C**

Analog output :

|           |       |    |  |
|-----------|-------|----|--|
| I1        |       |    |  |
| 0.000 ... | 5.000 | A  |  |
| 0.00 ...  | 20.00 | mA |  |

**Output D**

Analog output :

|          |       |    |  |
|----------|-------|----|--|
| U1N      |       |    |  |
| 0.0 ...  | 230.9 | V  |  |
| 0.00 ... | 20.00 | mA |  |

**Output G**

Limit signal : ON if ...

P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...

P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffic...

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2 Firefox

MXX Configuration softwa...

12:53 PM

# MXX Programming - Digital Output Configuration

Select Measurand as per the customer requirement.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Pulse output (with internal meter) G**

Measurand

- not used
- not used
- Current
- Apparent power
- Active power (input)
- Active power (output)
- Reactive power (inductive)
- Reactive power (capacitive)

OK Cancel

-20.00 ... 20.00 mA

Information text

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Output B**

Analog output :

|          |       |    |  |
|----------|-------|----|--|
| P        |       |    |  |
| 0 ...    | 3464  | W  |  |
| 4.00 ... | 20.00 | mA |  |

**Output C**

Analog output :

|           |       |    |  |
|-----------|-------|----|--|
| I1        |       |    |  |
| 0.000 ... | 5.000 | A  |  |
| 0.00 ...  | 20.00 | mA |  |

**Output D**

Analog output :

|          |       |    |  |
|----------|-------|----|--|
| U1N      |       |    |  |
| 0.0 ...  | 230.9 | V  |  |
| 0.00 ... | 20.00 | mA |  |

**Output G**

Limit signal : ON if ...

P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...

P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffic...

MXX Configuration softwa...

2:05 PM

# MXX Programming - Digital Output Configuration

Enter 'Pulse rate' as customer requirement.

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

Dev

**Pulse output (with internal meter) G**

Measurand

Active power (input)

System

Pulse rate

1154.7 / kWh

OK Cancel

-20.00 ... 20.00 mA

Information text

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

Output B

Analog output :

P

0 ... 3464 W  
4.00 ... 20.00 mA

Output C

Analog output :

I1

0.000 ... 5.000 A  
0.00 ... 20.00 mA

Output D

Analog output :

U1N

0.0 ... 230.9 V  
0.00 ... 20.00 mA

Output G

Pulse output (with internal meter) :

P Input

1154.7 / kWh

Output H

Limit signal : ON if ...

P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffic...

MXX Configuration softwa...

2:10 PM

# MXX Programming - Energy Meter reading / setting

Menu : Service \ Meter reading / setting

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition **Service** Options Help

System check  
Simulation  
Output calibration  
Password...  
**Meter reading / setting**  
Slave pointer reset  
Read EPROM-Version

Device type: **Multi-Transducer**  
- 4 analog output  
- 2 digital output

Information text

**Input**

- \* Voltage Ur: 400V/400.0V
- \* Current Ir: 5A/5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Pulse output (with internal meter) :  
P Input  
1154.7 / kWh

**Output H**

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

# MXX Programming - Energy Meter reading / setting

Click on 'Reset' button to reset meter reading.

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

Information text

Meter reading...

Meter 1

Meter 2

Meter 3

Meter 4

OK Cancel

Output C

Output D

Output G

Output H

Analog output :

P

0 ... 3464 W

4.00 ... 20.00 mA

Analog output :

U1N

0.0 ... 230.9 V

0.00 ... 20.00 mA

Pulse output (with internal meter) :

P Input

1154.7 / kWh

Pulse output (with internal meter) :

S

1154.7 / kVAh

start

MXX.ppt - OpenOffic...

MXX Configuration softwa...

Untitled - SourceLogic

2:12 PM

# MXX Programming - Energy Meter reading / setting

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Meter reading...**

**Meter 1**

**Meter 2**

**Meter 3**

P Input kWh

0.0000

**Meter 4**

S kVAh

0.0000

Information text

via voltage  
n:4-wire system, asymmetrical

Analog output :

P

0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :

I1

0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :

U1N

0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Pulse output (with internal meter) :

P Input

1154.7 / kWh

**Output H**

Pulse output (with internal meter) :

S

1154.7 / kVAh

# MXX Programming - Configuring Slave pointer function for digital output.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

Used for ...

- ☐ Pulse output (with internal meter)
- ☒ Limit monitoring

OK Cancel

Information text

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :

|            |       |    |  |
|------------|-------|----|--|
| P          |       |    |  |
| -3464 ...  | 3464  | W  |  |
| -20.00 ... | 20.00 | mA |  |

**Output B**

Analog output :

|          |       |    |  |
|----------|-------|----|--|
| P        |       |    |  |
| 0 ...    | 3464  | W  |  |
| 4.00 ... | 20.00 | mA |  |

**Output C**

Analog output :

|           |       |    |  |
|-----------|-------|----|--|
| I1        |       |    |  |
| 0.000 ... | 5.000 | A  |  |
| 0.00 ...  | 20.00 | mA |  |

**Output D**

Analog output :

|          |       |    |  |
|----------|-------|----|--|
| U1N      |       |    |  |
| 0.0 ...  | 230.9 | V  |  |
| 0.00 ... | 20.00 | mA |  |

**Output G**

Limit signal : ON if ...  
BS1 (1.0min) < 5.000A  
Ydel=min

**Output H**

Pulse output (with internal meter) :

|        |        |  |  |
|--------|--------|--|--|
| S      |        |  |  |
| 1154.7 | / kVAh |  |  |

start

MXX.ppt - OpenOffic...

MXX Configuration softwa...

Untitled - SourceLogic

2:14 PM

# MXX Programming - Configuring Slave pointer function for digital output.

MXX Configuration software for RISH Ducer MXX

File Device tune Measurement acquisition Service Options Help

### Limit signal G

**Limit 1**

Slave pointer function current

Phase 1

5.000 A 1.00 min

☐ High alarm ☒ Low alarm

**Switch-in delay**

0.39 ... 0.78 [ s ] ☒ Minimal

**Alarm condition**

☒ Output ON ☐ Output OFF

**Logic operation**

☐ OR ☒ AND

**Limit 2**

not used

☐ High alarm ☒ Low alarm

**Limit 3**

not used

☐ High limit ☒ Low limit

OK Cancel

**Output C**

Analog output :

|    |                 |    |
|----|-----------------|----|
| I1 | 0.000 ... 5.000 | A  |
|    | 0.00 ... 20.00  | mA |

**Output D**

Analog output :

|     |                |    |
|-----|----------------|----|
| U1N | 0.0 ... 230.9  | V  |
|     | 0.00 ... 20.00 | mA |

**Output G**

Limit signal : ON if ...

BS1 (1.0min) < 5.000A

Ydel=min

**Output H**

Pulse output (with internal meter) :

S

1154.7 / kVAh

Information text

age  
system, asymmetrical

Analog output :

P

|          |       |    |
|----------|-------|----|
| 0 ...    | 3464  | W  |
| 4.00 ... | 20.00 | mA |

start

MXX.ppt - OpenOffice...

MXX Configuration softwa...

Untitled - SourceLogic

2:15 PM

# MXX Programming - Slave pointer reset

Menu : Service \ Meter reading / setting

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition **Service** Options Help

System check  
Simulation  
Output calibration  
Password...  
Meter reading / setting  
**Slave pointer reset**  
Read EPROM-Version

Device type: **Multi-Transducer**  
- 4 analog output  
- 2 digital output

Information text

**Input**

- \* Voltage Ur: 400V/400.0V
- \* Current Ir: 5A/5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
BS1 (1.0min) < 5.000A  
Ydel=min

**Output H**

Pulse output (with internal meter) :  
S  
1154.7 / kVAh

# MXX Programming - Slave pointer reset

Menu : Service \ Meter reading / setting \ Reset slave pointers

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Resettable slave pointers...**

- ☐ Output A
- ☐ Output B
- ☐ Output C
- ☐ Output D
- ☐ Limit E
- ☐ Limit F
- ☐ Limit G1
- ☐ Limit G2
- ☐ Limit G3
- ☐ Limit H1
- ☐ Limit H2
- ☐ Limit H3

OK Cancel

Information text

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Output A**

|   |          |       |    |
|---|----------|-------|----|
| P | 0 ...    | 3464  | W  |
|   | 4.00 ... | 20.00 | mA |

**Output B**

Analog output :

|   |          |       |     |
|---|----------|-------|-----|
| Q | 0 ...    | 3464  | var |
|   | 4.00 ... | 20.00 | mA  |

**Output C**

Analog output :

|    |           |       |    |
|----|-----------|-------|----|
| I1 | 0.000 ... | 5.000 | A  |
|    | 4.00 ...  | 20.00 | mA |

**Output D**

Analog output :

|     |          |       |    |
|-----|----------|-------|----|
| U12 | 0.0 ...  | 400.0 | V  |
|     | 4.00 ... | 20.00 | mA |

**Output G**

Limit signal : ON if ...  
BS1 (1.0min) > 5.000A  
Ydel=min

**Output H**

Limit signal : ON if ...  
I1 > 5.000A  
Ydel=min

start

MXX Configuration softwa...

mx2 - Paint

8:23 AM

# MXX Programming - Program Transducer

Menu : File \ Program transducer

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

New  
Open...  
Close  
Save  
Save As...  
**Program transducer**  
Read from transducer  
Print...  
1 C:\PROGRA~1\RIPL\RISHDU~1\MXX.DME  
2 C:\PROGRA~1\RIPL\RISHDU~1\42.DME  
3 C:\PROGRA~1\RIPL\RISHDU~1\SIEMENS.DME  
4 C:\PROGRA~1\RIPL\RISHDU~1\SEIMENS.DME  
Exit Alt+F4

Information text

400.0V  
5.0A  
50 Hz

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Output A**  
Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output B**  
Analog output :  
Q  
0 ... 3464 var  
4.00 ... 20.00 mA

**Output C**  
Analog output :  
I1  
0.000 ... 5.000 A  
4.00 ... 20.00 mA

**Output D**  
Analog output :  
U12  
0.0 ... 400.0 V  
4.00 ... 20.00 mA

**Output G**  
Limit signal : ON if ...  
BS1 (1.0min) > 5.000A  
Ydel=min

**Output H**  
Limit signal : ON if ...  
I1 > 5.000A  
Ydel=min

start Configuration softwa... 8:22 AM

# MXX Programming - Read Transducer

Menu : File \ Read from transducer

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

New  
Open...  
Close  
Save  
Save As...  
Program transducer  
**Read from transducer**  
Print...  
1 C:\PROGRA~1\RIPL\RISHDU~1\MXX.DME  
2 C:\PROGRA~1\RIPL\RISHDU~1\42.DME  
3 C:\PROGRA~1\RIPL\RISHDU~1\SIEMENS.DME  
4 C:\PROGRA~1\RIPL\RISHDU~1\SEIMENS.DME  
Exit Alt+F4

Information text

400.0V  
5.0A  
50 Hz

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output B**

Analog output :  
Q  
0 ... 3464 var  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
4.00 ... 20.00 mA

**Output D**

Analog output :  
U12  
0.0 ... 400.0 V  
4.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
BS1 (1.0min) > 5.000A  
Ydel=min

**Output H**

Limit signal : ON if ...  
I1 > 5.000A  
Ydel=min

start

MXX Configuration softwa... mxx1 - Paint

8:22 AM

# MXX Programming - Printing Sticker & configuration

Menu : File \ Nameplate RISH Ducer MXX

Menu : File \ Configuration

**MXX Configuration software for RISH Ducer MXX : MXX.DME**

File Device type Measurand acquisition Service Options Help

New  
Open...  
Close  
Save  
Save As...  
Program transducer  
Read from transducer  
Print...  
Exit Alt+F4

1 C:\PROGRA~1\RIPL\RISHDU~1\MXX.DME  
2 C:\PROGRA~1\RIPL\RISHDU~1\42.DME  
3 C:\PROGRA~1\RIPL\RISHDU~1\SIEMENS.DME  
4 C:\PROGRA~1\RIPL\RISHDU~1\SIEMENS.DME

Nameplate RISH Ducer MXX  
Configuration  
Printer setup...

Information text

frequency measur.: via voltage  
system configuration: 4-wire system, asymmetrical

50 Hz

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

MXX.ppt - OpenOffice.org Impress

start | MXX.ppt - Ope... | Untitled - Sour... | MX Configuration s... | 2 Firefox | My Computer | 12:00 PM

# MXX Programming - Printing Sticker & configuration

Select printer & Click on 'OK' Button

MXX Configuration software for RISH Ducer MXX : MXX.DME

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Print**

Printer

Name: RICOH Samyaka Properties...

Status: Ready

Type: RICOH Aficio MP 2500 RPCS

Where: IP\_192.168.0.21

Comment: ☐ Print to file

Print range

☒ All

☐ Pages from: to:

☐ Selection

Copies

Number of copies: 1

☒ Collate

OK Cancel

Information text

frequency measur.: via voltage

system configuration: 4-wire system, asymmetrical

**Output B**

Analog output :

|          |       |    |  |
|----------|-------|----|--|
| P        |       |    |  |
| 0 ...    | 3464  | W  |  |
| 4.00 ... | 20.00 | mA |  |

**Output C**

Analog output :

|           |       |    |  |
|-----------|-------|----|--|
| I1        |       |    |  |
| 0.000 ... | 5.000 | A  |  |
| 0.00 ...  | 20.00 | mA |  |

**Output D**

Analog output :

|          |       |    |  |
|----------|-------|----|--|
| U1N      |       |    |  |
| 0.0 ...  | 230.9 | V  |  |
| 0.00 ... | 20.00 | mA |  |

**Output G**

Limit signal : ON if ...

P > 3464W and

I1 > 5.005A and

I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...

P > 3464W and

F > 55.00Hz and

F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffic...

Untitled - SourceLogic

MXX Configuration softwa...

2 Firefox

12:34 PM

# MXX Programming Via Rishducer MXX configuration software

Menu : Device type \ RISH Ducer M42 (For M42 configuration & same procedure for M24,M40,M00)

**MXX Configuration software for RISH Ducer MXX : MXX.DME**

File Device type Measurand acquisition Service Options Help

Device type: **RISH Ducer M42**

- RISH Ducer M24
- ✓ RISH Ducer M42
- RISH Ducer M00 (LON)
- RISH Ducer M40 (RS485-MODBUS with 4 analog outputs)

**Device type: Multi-transducer RISH Ducer M42**

- 4 analog outputs
- 2 digital outputs

Information text

**Input**

- \* Voltage Ur: 400V/400.0V
- \* Current Ir: 5A/5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :

|            |       |    |  |
|------------|-------|----|--|
| P          |       |    |  |
| -3464 ...  | 3464  | W  |  |
| -20.00 ... | 20.00 | mA |  |

**Output B**

Analog output :

|          |       |    |  |
|----------|-------|----|--|
| P        |       |    |  |
| 0 ...    | 3464  | W  |  |
| 4.00 ... | 20.00 | mA |  |

**Output C**

Analog output :

|           |       |    |  |
|-----------|-------|----|--|
| I1        |       |    |  |
| 0.000 ... | 5.000 | A  |  |
| 0.00 ...  | 20.00 | mA |  |

**Output D**

Analog output :

|          |       |    |  |
|----------|-------|----|--|
| U1N      |       |    |  |
| 0.0 ...  | 230.9 | V  |  |
| 0.00 ... | 20.00 | mA |  |

**Output G**

Limit signal : ON if ...

- P > 3464W and
- I1 > 5.005A and
- I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...

- P > 3464W and
- F > 55.00Hz and
- F < 45.00Hz (Ydel=min)

# MXX Programming – Measurand Display

Menu : Measurand acquisition \ Measurand display

**MXX Configuration software for RISH Ducer MXX : MXX.DME**

File Device type Measurand acquisition Service Options Help

Measurand display  
Measurands MODBUS

Device type: **Multi-Transducer RISH Ducer M42**  
- 4 analog outputs  
- 2 digital outputs

Information text

**Input**

- \* Voltage Ur: 400V/400.0V
- \* Current Ir: 5A/5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

# MXX Programming – Measurand Display

Select Secondary or Primary values to see the measurand display.

**MXX Configuration software for RISH Ducer MXX : MXX.DME**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Display...**

☒ Secondary values  
☐ Primary values

OK Cancel

Information text

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffice...

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MXX Configuration softwa...

2 Firefox

12:35 PM

# MXX Programming – Measurand Display

**MXX Configuration software for RISH Ducer MXX : MXX.DME**

Stop

### Output A

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

P 3481 W  
20.10 mA

### Output B

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

P 3481 W  
20.08 mA

### Output C

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

I1 5.012 A  
20.05 mA

### Output D

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

U1N 231.5 V  
20.05 mA

### Output G

Limit signal :  
ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

P 3481 W  
I1 5.011 A  
I1 5.011 A

### Output H

Limit signal :  
ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

P 3481 W  
F 49.95 Hz  
F 49.95 Hz

start | MXX.ppt - OpenOffic... | Untitled - SourceLogic | MXX Configuration softwa... | 2 Firefox | 12:36 PM

# MXX Programming – System check

Menu : Service \ System Check

**MXX Configuration software for RISH Ducer MXX : MXX.DME**

File Device type Measurand acquisition **Service** Options Help

System check  
Simulation  
Output calibration  
Password...  
Meter reading / setting  
Slave pointer reset  
Read EPROM-Version

Device type: **Multi-Transducer**  
- 4 analog output  
- 2 digital output

Information text

**Input**

- \* Voltage Ur: 400V/400.0V
- \* Current Ir: 5A/5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

# MXX Programming – System check

Select Secondary or Primary values to see the System check.

MXX Configuration software for RISH Ducer MXX : MXX.DME

File Device type Measurand acquisition Service Options Help

Primary Secondary

Display...

☒ Secondary values  
☐ Primary values

OK Cancel

Information text

MXX

\*/400.0V  
0.0A  
Z

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

Output A

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

Output B

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

Output C

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

Output D

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

Output G

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

Output H

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffic...

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MXX Configuration softwa...

2 Firefox

12:35 PM

# MXX Programming – System check

MXX Configuration software for RISH Ducer MXX : MXX.DME

File Device type Measurand acquisition Service Options Help

Primary Secondary

### Measurands of analyzed system...

|    | I     | IB    | BS    |
|----|-------|-------|-------|
| L1 | 5.010 | 0.096 | 0.096 |
| L2 | 5.008 | 0.095 | 0.095 |
| L3 | 5.003 | 0.095 | 0.095 |

|        | P[W] | Q[var] | S[VA] | LF     | PF     | QF     |
|--------|------|--------|-------|--------|--------|--------|
| L1     | 1160 | 3      | 1160  | 0.0000 | 1.0000 | 0.0028 |
| L2     | 1164 | 2      | 1164  | 0.0000 | 1.0000 | 0.0013 |
| L3     | 1156 | 1      | 1156  | 0.0000 | 1.0000 | 0.0009 |
| System | 3480 | 8      | 3480  | 0.0000 | 1.0000 | 0.0022 |

Stop

Information text

ur.: via voltage  
ation: 4-wire system, asymmetrical

Output B

Analog output :

P  
0 ... 3464 W  
4.00 ... 20.00 mA

Output D

Analog output :

U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

Output G

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

Output H

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffice...

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MXX Configuration softwa...

2 Firefox

12:39 PM

# MXX Programming – Simulation

Menu : Service \ Simulation

**MXX Configuration software for RISH Ducer MXX : MXX.DME** [Stop]

### Simulation of Output A

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

3480 W  
20.092 mA

Send Options

### Simulation of Output B

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

3480 W  
20.074 mA

Send Options

### Simulation of Output C

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

5.009 A  
20.036 mA

Send Options

### Simulation of Output D

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

231.5 V  
20.050 mA

Send Options

### Simulation of Output G

Limit signal :  
ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

☐ ON  
☒ OFF

### Simulation of Output H

Limit signal :  
ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

☐ ON  
☒ OFF

Send all

# MXX Programming – Output Calibration

Menu : Service \ Output Calibration : Click on 'Output A', 'Output B', 'Output C', 'Output D' for output calibration.

MXX Configuration software for RISH Ducer MXX : MXX.DME

File Device type Measurand acquisition Service Options Help

Primary Secondary

Output calibration...

Start for... Use...

Output A ☒ Factory calibration ☐ Customer calibration

Output B ☐ Factory calibration ☒ Customer calibration

Output C ☒ Factory calibration ☐ Customer calibration

Output D ☒ Factory calibration ☐ Customer calibration

Done Cancel

Information text

MXX

by measur.: via voltage  
onfiguration:4-wire system, asymmetrical

Output B

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

Output C

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

Output D

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

Output G

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

Output H

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffic...

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MXX Configuration softwa...

2 Firefox

12:46 PM

# MXX Programming – Output Calibration

Connect DMM terminal nos +15 & -16 for of MXX Transducer for output calibration.  
Enter the value measured on dmm. After completed calibration click on 'Done' button.

**MXX Configuration software for RISH Ducer MXX : MXX.DME**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Output calibration...**

Start for... Use...

Output A ☒ Factory calibration ☐ Customer calibration

Output B

Output C

Output D

**Measure: Output A**

20.0018 mA

OK Cancel

Done

Cancel

Information text

by measur.: via voltage  
onfiguration: 4-wire system, asymmetrical

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffic...

Untitled - SourceLogic

MXX Configuration softwa...

2 Firefox

12:46 PM

# MXX Programming – Password

Menu : Service \ Password \ Set password... or Delete password... or Validity of password protection...

**MXX Configuration software for RISH Ducer MXX : MXX.DME**

File Device type Measurand acquisition **Service** Options Help

System check  
Simulation  
Output calibration  
**Password...** → Set password...  
Delete password...  
Validity of password protection...  
Meter reading / setting  
Slave pointer reset  
Read EPROM-Version

Device type: **Multi-Transducer**  
- 4 analog outputs  
- 2 digital outputs

Information text

**Input**

- \* Voltage Ur: 400V/400.0V
- \* Current Ir: 5A/5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

# MXX Programming – Password

Define New password & Confirmation, Then click on 'OK' Button.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Define password...**

New password: \*\*\*\*\*

Confirmation: \*\*\*\*\*

OK Cancel

Information text

**MXX**

400.0V  
0A

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

**Output H**

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffic...

Untitled - SourceLogic

2 Firefox

MXX Configuration softwa...

12:50 PM

# MXX Programming – Password

For Password interrogation enter Present password, Then click on 'OK Button.

**Note :** If you forgot password you have to send it back to factory for delete password.

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

Dev Password interrogation...

Present password: \*\*\*

OK Cancel

Information text

MXX

0V

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

Nom. frequency: 50 Hz

Output A

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

Output B

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

Output C

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

Output D

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

Output G

Limit signal : ON if ...  
P > 3464W and  
I1 > 5.005A and  
I1 < 4.995A (Ydel=min)

Output H

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffic...

Untitled - SourceLogic

2 Firefox

MXX Configuration softwa...

12:52 PM

# MXX Programming – Version

Menu : Service \ Read EPROM-Version.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition **Service** Options Help

System check  
Simulation  
Output calibration  
Password...  
Meter reading / setting  
Slave pointer reset  
**Read EPROM-Version**

Device type: **Multi-Transducer**  
- 4 analog output  
- 2 digital output

Information text

**Input**

- \* Voltage Ur: 400V/400.0V
- \* Current Ir: 5A/5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
BS1 (1.0min) < 5.000A  
Ydel=min

**Output H**

Pulse output (with internal meter) :  
S  
1154.7 / kVAh

# MXX Programming – Version

See the EPROM version, Then Click on 'OK' Button.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Device type: Multi-Transducer RISH Ducer M42**  
- 4 analog outputs  
- 2 digital outputs

**Information text**

**Input**

- \* Voltage Ur: 400V/400.0V
- \* Current Ir: 5A/5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
BS1 (1.0min) < 5.000A  
Ydel=min

**Output H**

Pulse output (with internal meter) :  
S  
1154.7 / kVAh

**EPROM**  
Version: 1.25  
OK

start | e | e | e | >> | MXX.ppt - OpenOffic... | MXX Configuration softwa... | Untitled - SourceLogic | 2:16 PM

# MXX Programming – Communication protocols.

Menu : Options \ Communication interface...\ Bus Interface RS485... (Only for M40 & M01) or Local RS232 interface (M42,M40,M24,M01,M00) & Set com port COM1/2/3/4.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Communication interface...  
Bus interface RS485...  
✓ Local RS232 interface  
COM1:  
COM2:  
COM3:  
✓ COM4:

Primary value display  
Secondary value display

Device type: **Multi-Transducer RISH Ducer M42**  
- 4 analog outputs  
- 2 digital outputs

Information text

**Input**

\* Voltage Ur: 400V/400.0V  
\* Current Ir: 5A/5.0A  
\* Nom. frequency: 50 Hz  
\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
BS1 (1.0min) < 5.000A  
Ydel=min

**Output H**

Pulse output (with internal meter) :  
S  
1154.7 / KVAh

# MXX Programming – Help

Menu : Help \ Contents for more information about MXX transducer configuration software.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options **Help**

Contents  
About...

Primary Secondary

**Device type: Multi-Transducer RISH Ducer M42**  
- 4 analog outputs  
- 2 digital outputs

**Information text**

**Input**

- \* Voltage Ur: 400V/400.0V
- \* Current Ir: 5A/5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Limit signal : ON if ...  
BS1 (1.0min) < 5.000A  
Ydel=min

**Output H**

Pulse output (with internal meter) :  
S  
1154.7 / kVAh

# MXX Programming – Help

 Help for software RISH Ducer MXX

File Edit Bookmark Help

**Contents** Search Back History

## Configuration software for RISH Ducer MXX

|                                        |                                                     |
|----------------------------------------|-----------------------------------------------------|
| <a href="#">General</a>                | Application description                             |
| <a href="#">File menu</a>              | Description of file menu commands                   |
| <a href="#">Device type</a>            | Description of device type selection                |
| <a href="#">Measurand acquisition</a>  | Description of measurand acquisition menu commands  |
| <a href="#">Service</a>                | Description of service menu commands                |
| <a href="#">Options</a>                | Description of option menu selection possibilities  |
| <a href="#">Power factor measuring</a> | Select the right factor for your application        |
| <a href="#">Modify output hardware</a> | How to modify hardware for a new output range limit |

# MXX Programming – RS485 Interface configuration

Menu : Communication Interface... \ Bus interface RS485

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Communication interface...  
Primary value display  
Secondary value display

Bus interface RS485...  
Local RS232 interface  
COM1:  
COM2:  
COM3:  
✓ COM4:

Device type: **Multi-Transducer RISH Ducer M01**  
- data bus RS485-MODBUS

Information text

**Input**

\* Voltage Ur: 400.0V  
\* Current Ir: 5.0A  
\* Nom. frequency: 50 Hz

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Meters**

1:  
2:  
3:  
4:

**Bus service**

\* Device address: 1  
\* Number of measurands: 43  
\* Baud rate: 9600 Bd  
\* Silent interval: 3.5 Chars

January 11, 2011 - Sandip

start M42 TESTI... C:\Docume... E:\ CD Writing... MXX.ppt - ... MXX Configurati... 11:49 AM

# MXX Programming – RS485 Interface configuration

Menu : File \ Read from transducer

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

New  
Open...  
Close  
Save  
Save As...  
Program transducer  
**Read from transducer**  
Print...  
1 C:\PROGRA~1\RIPL\RISHDU~1\MXX.DME  
2 C:\PROGRA~1\RIPL\RISHDU~1\42.DME  
3 C:\PROGRA~1\RIPL\RISHDU~1\SIEMENS.DME  
4 C:\PROGRA~1\RIPL\RISHDU~1\SEIMENS.DME  
Exit Alt+F4

401

MXX

Information text

400.0V  
5.0A  
50 Hz

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Meters**

1:  
2:  
3:  
4:

**Bus service**

\* Device address: 1  
\* Number of measurands: 43  
\* Baud rate: 9600 Bd  
\* Silent interval: 3.5 Chars

January 11, 2011 - Sandip  
09/1/2011

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# MXX Programming – RS485 Interface configuration

Enter 'Device address' & Select 'Baud rate', 'Silent interval'

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

Device type: **Multi-Transducer RISH Ducer M01**  
- data bus RS485-MODBUS

Information text

Input

**Device selection...**

Device address:

Baud rate:

- ☐ 1200 Bd
- ☐ 2400 Bd
- ☒ 9600 Bd

Silent interval:

- ☒ min. 3,5 chars
- ☐ min. 7,0 chars
- ☐ min. 10,5 chars
- ☐ min. 14,0 chars

OK Cancel

via voltage  
4-wire system, asymmetrical

Meters

1:  
2:  
3:  
4:

Bus service

\* Device address: 1  
\* Number of measurands: 43  
\* Baud rate: 9600 Bd  
\* Silent interval: 3.5 Chars

January 11, 2011 - Sandip

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# MXX Programming – RS485 Interface configuration

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

Device type: **Multi-Transducer RISH Ducer M01**  
- data bus RS485-MODBUS

Information text

**Input**

**Data transmission**

0%

Read device data...

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Meters**

1:  
2:  
3:  
4:

**Bus service**

\* Device address: 1  
\* Number of measurands: 43  
\* Baud rate: 9600 Bd  
\* Silent interval: 3.5 Chars

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start

M42 TESTI... C:\Docume... E:\ CD Writing... MXX.ppt - ... MXX Configurati...

11:50 AM

# MXX Programming – RS485 Interface configuration

Menu : Communication Interface... \ Measurands MODBUS

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Measurand display  
Measurands MODBUS

Device type: **Multi-Transducer RISH Ducer M01**  
- data bus RS485-MODBUS

Information text

**Input**

- \* Voltage Ur: 400.0V
- \* Current Ir: 5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Meters**

- 1:
- 2:
- 3:
- 4:

**Bus service**

- \* Device address: 1
- \* Number of measurands: 43
- \* Baud rate: 9600 Bd
- \* Silent interval: 3.5 Chars

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# MXX Programming – RS485 Interface configuration

Enter 'Device address' & Select 'Baud rate', 'Silent interval'

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

Device type: **Multi-Transducer RISH Ducer M01**  
- data bus RS485-MODBUS

Information text

Input

**Device selection...**

Device address:

Baud rate:  
☐ 1200 Bd  
☐ 2400 Bd  
☒ 9600 Bd

Silent interval:  
☒ min. 3,5 chars  
☐ min. 7,0 chars  
☐ min. 10,5 chars  
☐ min. 14,0 chars

OK Cancel

via voltage  
4-wire system, asymmetrical

Meters

1:  
2:  
3:  
4:

Bus service

\* Device address: 1  
\* Number of measurands: 43  
\* Baud rate: 9600 Bd  
\* Silent interval: 3.5 Chars

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# MXX Programming – RS485 Interface configuration

Menu : Communication Interface... \ Measurands MODBUS

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Device address: 1**

|    | I     | IB    | BS    |   |
|----|-------|-------|-------|---|
| L1 | 5.012 | 0.189 | 0.189 | A |
| L2 | 5.011 | 0.189 | 0.189 | A |
| L3 | 5.004 | 0.189 | 0.189 | A |

IM 5.010 A UM 231.7 V  
IMS 5.010 A F 50.00 Hz

|        | P[W] | Q[var] | S[VA] | LF    | PF    | QF    |        |
|--------|------|--------|-------|-------|-------|-------|--------|
| L1     | 1162 | 3      | 1162  | 0.000 | 1.000 | 0.002 | L1     |
| L2     | 1165 | 4      | 1165  | 0.000 | 1.000 | 0.003 | L2     |
| L3     | 1157 | 3      | 1157  | 0.000 | 1.000 | 0.002 | L3     |
| System | 3484 | 9      | 3483  | 0.000 | 1.000 | 0.003 | System |

Stop

Information text

ur.: via voltage  
ation: 4-wire system, asymmetrical

\* Device address: 1  
\* Number of measurands: 43  
\* Baud rate: 9600 Bd  
\* Silent interval: 3.5 Chars

January 11, 2011 - Sandip

09/11/2011

# MXX Programming – RS485 Interface configuration

Click on 'Bus service' button to set bus service parameters.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Bus service parameters...**

Measurement cycle:  [s]

**Measurands to calculate**

|                                         |                                        |                                         |                                         |                                         |                                         |                                         |
|-----------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| <input type="checkbox"/> U              | <input type="checkbox"/> I             | <input checked="" type="checkbox"/> P3  | <input checked="" type="checkbox"/> PF2 | <input checked="" type="checkbox"/> S   | <input checked="" type="checkbox"/> LF1 | <input type="checkbox"/> BS             |
| <input checked="" type="checkbox"/> U1N | <input checked="" type="checkbox"/> I1 | <input checked="" type="checkbox"/> Q   | <input checked="" type="checkbox"/> PF3 | <input checked="" type="checkbox"/> S1  | <input checked="" type="checkbox"/> LF2 | <input checked="" type="checkbox"/> BS1 |
| <input checked="" type="checkbox"/> U2N | <input checked="" type="checkbox"/> I2 | <input checked="" type="checkbox"/> Q1  | <input checked="" type="checkbox"/> QF  | <input checked="" type="checkbox"/> S2  | <input checked="" type="checkbox"/> LF3 | <input checked="" type="checkbox"/> BS2 |
| <input checked="" type="checkbox"/> U3N | <input checked="" type="checkbox"/> I3 | <input checked="" type="checkbox"/> Q2  | <input checked="" type="checkbox"/> QF1 | <input checked="" type="checkbox"/> S3  | <input type="checkbox"/> IB             | <input checked="" type="checkbox"/> BS3 |
| <input checked="" type="checkbox"/> U12 | <input checked="" type="checkbox"/> P  | <input checked="" type="checkbox"/> Q3  | <input checked="" type="checkbox"/> QF2 | <input checked="" type="checkbox"/> IM  | <input checked="" type="checkbox"/> IB1 | <input checked="" type="checkbox"/> UM  |
| <input checked="" type="checkbox"/> U23 | <input checked="" type="checkbox"/> P1 | <input checked="" type="checkbox"/> PF  | <input checked="" type="checkbox"/> QF3 | <input checked="" type="checkbox"/> IMS | <input checked="" type="checkbox"/> IB2 |                                         |
| <input checked="" type="checkbox"/> U31 | <input checked="" type="checkbox"/> P2 | <input checked="" type="checkbox"/> PF1 | <input checked="" type="checkbox"/> F   | <input checked="" type="checkbox"/> LF  | <input checked="" type="checkbox"/> IB3 |                                         |

Device address:

Baud rate:  
☐ 1200 Bd  
☐ 2400 Bd  
☒ 9600 Bd

Silent interval:  
☒ min. 3,5 chars  
☐ min. 7,0 chars  
☐ min. 10,5 chars  
☐ min. 14,0 chars

OK Cancel

**Information text**

MXX

Frequency measur.: via voltage  
System configuration: 4-wire system, asymmetrical

**CLICK HERE**

**Meters**

1:  
2:  
3:  
4:

**Bus service**

- \* Device address: 1
- \* Number of measurands: 43
- \* Baud rate: 9600 Bd
- \* Silent interval: 3.5 Chars

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start M42 TESTING - ... C:\Documents ... E:\ MXX.ppt - Ope... MXX Configuration s... 11:53 AM

# MXX Programming – Meters Selection

Click on 'Meters' button to set Measurand meters.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Meters Selection**

Measurand meter 1: not used  
Measurand meter 2: not used  
Measurand meter 3: not used  
Measurand meter 4: not used

OK Cancel

Information text

ur.: via voltage  
ation:4-wire system, asymmetrical

**CLICK HERE**

Meters

1:  
2:  
3:  
4:

Bus service

\* Device address: 1  
\* Number of measurands: 43  
\* Baud rate: 9600 Bd  
\* Silent interval: 3.5 Chars

January 11, 2011 - Sandip

start M42 TESTING - ... C:\Documents ... E:\ MXX.ppt - Ope... MXX Configuration s...

11:53 AM

# MXX Programming – Meters Selection

Select parameter as per the customer requirement.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Meters Selection**

Measurand meter 1

not used

not used

Current

Apparent power

Active power (input)

Active power (output)

Reactive power (inductive)

Reactive power (capacitive)

Measurand meter 2

not used

Measurand meter 4

not used

OK Cancel

Information text

Measur.: via voltage

Configuration: 4-wire system, asymmetrical

**Meters**

1:

2:

3:

4:

**Bus service**

\* Device address: 1

\* Number of measurands: 43

\* Baud rate: 9600 Bd

\* Silent interval: 3.5 Chars

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MXX.ppt - OpenOffice.org Impress

start M42 TESTING - ... C:\Documents ... E:\ MXX.ppt - Ope... Configuration s... 11:56 AM

# MXX Programming – Meters Selection

Click on 'OK' button to finalize the meters settings.

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Meters Selection**

**Measurand meter 1**  
Active power (input)  
System

**Measurand meter 2**  
Reactive power (inductive)  
System

**Measurand meter 3**  
Apparent power  
System

**Measurand meter 4**  
Current  
Phase 1

OK Cancel

Information text

Measur.: via voltage  
Configuration: 4-wire system, asymmetrical

**Meters**

1:  
2:  
3:  
4:

**Bus service**

\* Device address: 1  
\* Number of measurands: 43  
\* Baud rate: 9600 Bd  
\* Silent interval: 3.5 Chars

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start M42 TESTING - Sour... C:\Documents and Se... MXX.ppt - OpenOffic... MXX Configuration softwa... 11:56 AM

# MXX Programming - Program Transducer

Menu : File \ Program transducer

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition Service Options Help

New  
Open...  
Close  
Save  
Save As...

**Program transducer**

Read from transducer

Print...

1 C:\PROGRA~1\RIPL\RISHDU~1\MXX.DME  
2 C:\PROGRA~1\RIPL\RISHDU~1\42.DME  
3 C:\PROGRA~1\RIPL\RISHDU~1\SIEMENS.DME  
4 C:\PROGRA~1\RIPL\RISHDU~1\SEIMENS.DME

Exit Alt+F4

Information text

401

**MXX**

400.0V  
5.0A  
50 Hz

\* Frequency measur.: via voltage  
\* System configuration: 4-wire system, asymmetrical

**Meters**

|    |    |         |
|----|----|---------|
| 1: | P  | Input   |
| 2: | Q  | induct. |
| 3: | S  |         |
| 4: | I1 |         |

**Bus service**

|                         |           |
|-------------------------|-----------|
| * Device address:       | 1         |
| * Number of measurands: | 43        |
| * Baud rate:            | 9600 Bd   |
| * Silent interval:      | 3.5 Chars |

January 11, 2011 - Sandip

start

M42 TESTING - Sourc...

C:\Documents and Se...

MXX.ppt - OpenOffic...

MXX Configuration softwa...

11:57 AM

# MXX Programming - Energy Meter reading / setting

Menu : Service \ Meter reading / setting

**MXX Configuration software for RISH Ducer MXX**

File Device type Measurand acquisition **Service** Options Help

System check  
Simulation  
Output calibration  
Password...  
**Meter reading / setting**  
Slave pointer reset  
Read EPROM-Version

Device type: **Multi-Transducer**  
- 4 analog output  
- 2 digital output

Information text

**Input**

- \* Voltage Ur: 400V/400.0V
- \* Current Ir: 5A/5.0A
- \* Nom. frequency: 50 Hz
- \* Frequency measur.: via voltage
- \* System configuration: 4-wire system, asymmetrical

**Output A**

Analog output :  
P  
-3464 ... 3464 W  
-20.00 ... 20.00 mA

**Output B**

Analog output :  
P  
0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :  
I1  
0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :  
U1N  
0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Pulse output (with internal meter) :  
P Input  
1154.7 / kWh

**Output H**

Limit signal : ON if ...  
P > 3464W and  
F > 55.00Hz and  
F < 45.00Hz (Ydel=min)

start

MXX.ppt - OpenOffic...

MXX Configuration softwa...

2:10 PM

# MXX Programming - Energy Meter reading / setting

Click on 'Reset' button to reset meter reading.

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

Information text

Meter reading...

Meter 1

Meter 2

Meter 3

Meter 4

OK Cancel

Output C

Output D

Output G

Output H

Analog output :

P

0 ... 3464 W

4.00 ... 20.00 mA

Analog output :

U1N

0.0 ... 230.9 V

0.00 ... 20.00 mA

Pulse output (with internal meter) :

P Input

1154.7 / kWh

Pulse output (with internal meter) :

S

1154.7 / kVAh

start

MXX.ppt - OpenOffic...

MXX Configuration softwa...

Untitled - SourceLogic

2:12 PM

# MXX Programming - Energy Meter reading / setting

MXX Configuration software for RISH Ducer MXX

File Device type Measurand acquisition Service Options Help

Primary Secondary

**Meter reading...**

**Meter 1**

**Meter 2**

**Meter 3**

P Input kWh

0.0000

**Meter 4**

S kVAh

0.0000

Information text

via voltage  
n:4-wire system, asymmetrical

Analog output :

P

0 ... 3464 W  
4.00 ... 20.00 mA

**Output C**

Analog output :

I1

0.000 ... 5.000 A  
0.00 ... 20.00 mA

**Output D**

Analog output :

U1N

0.0 ... 230.9 V  
0.00 ... 20.00 mA

**Output G**

Pulse output (with internal meter) :

P Input

1154.7 / kWh

**Output H**

Pulse output (with internal meter) :

S

1154.7 / kVAh

# MXX Programming – Exit

Menu : File \ Exit to stop application.

