

# P19 Temperature And Humidity Transducer

## Features

eCon  
Program

MOD  
BUS

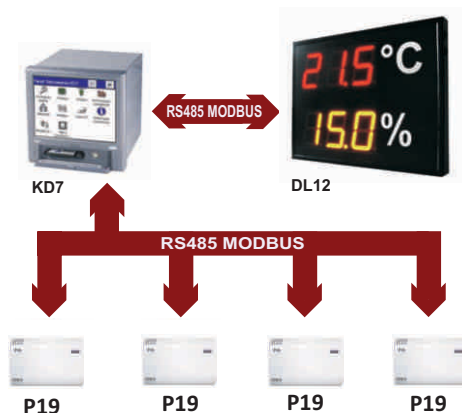
RS  
485



CE

- Built-in temperature and humidity sensor.
- Calculation of selected physical quantities (dew-point temperature, absolute humidity).
- Storage of measured and calculated maximum and minimum values.
- Interface RS-485 galvanically isolated (Modbus protocol).

## Example of application



Measurement and recording of temperature and humidity.

## Input



## Outputs

RS  
485

### Inputs

Measured value	Measuring range	Error
Temperature	-30 .. -20 .. 60 .. 80°C	+/- 0.6°C in range 10...40°C +/- 1°C in the remaining range
Relative humidity	0 .. 100%	+/- 3% for RH = 10 .. 90% +/- 5% for RH in the remaining range

### Digital interface

Interface type	Transmission mode	Baud rate	Remarks
RS-485 Modbus RTU	8N1, 8N2, 8E1, 8O1	4,8; 9,6; 19,2; 38,4; 57,6 kbit/s	galvanic isolation 1kV

### External features

Overall dimensions	120 x 80 x 25 mm
Weight	125 g
Protection grade	ensured by the casing: IP20
Fixing	on a wall

### Rated operating conditions

Supply voltage	9 .. 24 V d.c./a.c	power consumption < 0.3 VA
Temperature	ambient: -20...23...60°C	
Humidity	< 95%	inadmissible condensation

Operating position

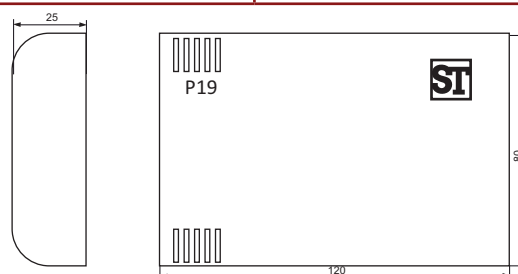


Fig. 1. Operating position and overall dimensions of P19 transducer.

Preheating time	15 minutes
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## Safety and compatibility requirements

Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Isolation between circuits	basic	acc. to EN 61010-1
Pollution level	2	
Installation category	III	
Maximal phase-to-earth operating voltage	50 V	
Altitude a.s.l.	< 2000 m	

## Connection diagram

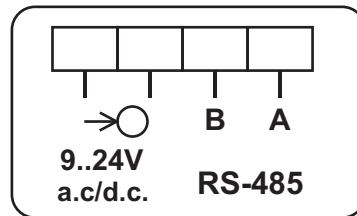


Fig. 2. Connection diagram of P19.

## Ordering

P19 -	XX	X	X
<b>Version:</b>			
standard	00		
custom-made*	XX		
<b>Language:</b>			
Polish	P		
English	E		
other*	X		
<b>Acceptance tests:</b>			
without extra quality requirements	0		
with an extra quality inspection certificate	1		
according to customer's request*	X		

\* only after agreeing with the manufacturer

### Order example:

The code: **P19 - 00E0** means:

P19 – temperature and humidity transducer of P19 type

00 – standard version

E – English version

0 – without extra quality requirements.

## See Also



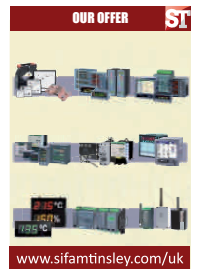
KD7 recorder.



Interface converter  
USB/RS-485 - PD10.



Tricolour digital  
display for outdoor  
application  
-DL21.



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