

P19 Temperature And Humidity Transducer

Features

- eCon Program
- MOD BUS
- RS 485



Outputs

RS 485

Galvanic Isolation

- RS 485 Zasilanie
- Supply

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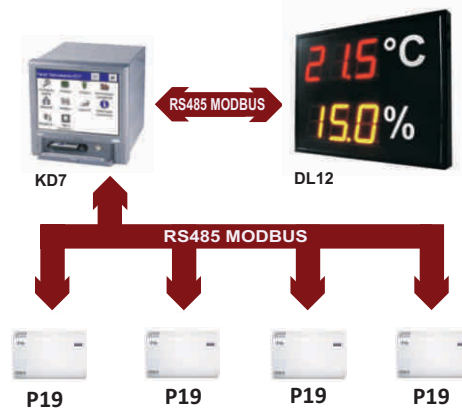


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- Built-in temperature and humidity sensor.
- Calculation of selected physical quantities (dew-point temperature, absolute humidity).
- Storage of measured and calculated maximum and minimum values.
- Interface RS-485 galvanically isolated (Modbus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

Example of application



Measurement and recording of temperature and humidity.

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		
Preheating time	15 minutes	

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

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

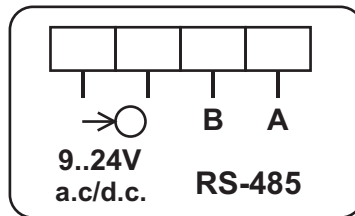


Fig. 2. Connection diagram of P19.

Ordering

P19 -	XX	X	X
Version:			
standard	00		
custom-made*	XX		
Language:			
Polish		P	
English		E	
other*		X	
Acceptance tests:			
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



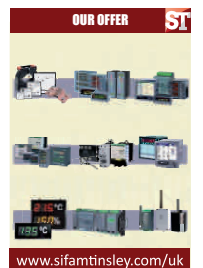
KD7 recorder.



Interface converter
USB/RS-485 - PD10.



Tricolour digital
display for outdoor
application
-DL21.



For more information
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our website
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