

P19 TEMPERATURE AND HUMIDITY TRANSDUCER

FEATURES:

- eCon Program MOD BUS
- RS 485

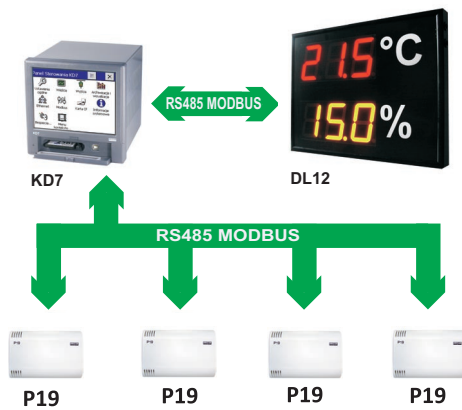


- Built-in temperature and humidity sensor.
- Calculation of selected physical quantities (dew-point temperature, absolute humidity).
- Storage of measured and calculated maximum and minimum values.
- Interface RS-485 galvanically isolated (Modbus protocol).

INPUT:



EXAMPLE OF APPLICATION



Measurement and recording of temperature and humidity.

OUTPUTS:



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 × 80 × 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

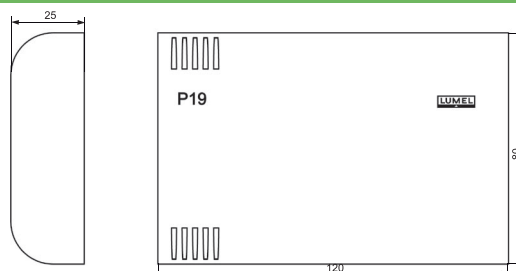


Fig. 1. Operating position and overall dimensions of P19 transducer.

Preheating time	15 minutes
-----------------	------------

Export department:
 English: +48 68 32 95 302 / 321 / 276 / 386 / 233
 German: +48 68 32 95 305
 Russian: +48 68 32 95 321
 Fax: +48 68 32 54 091
 e-mail: export@lumel.com.pl

„LUMEL” S.A.
 ul. Słubicka 1
 65-127 Zielona Góra
 POLAND

WWW.LUMEL.COM.PL

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

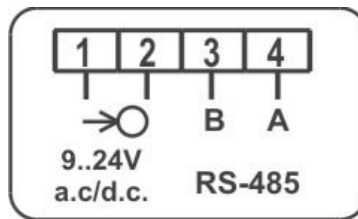


Fig. 2. Connection diagram of P19.

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.



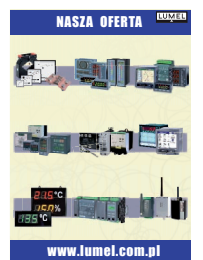
Interface converter USB/RS-485 - PD10.



Tricolour digital display for outdoor application -DL21.



LUMEL-PROCES software.



For more information about LUMEL's products please visit our website:
www.lumel.com.pl

Export department:
English: +48 68 32 95 302 / 321 / 276 / 386 / 233
German: +48 68 32 95 305
Russian: +48 68 32 95 321
Fax: +48 68 32 54 091
e-mail: export@lumel.com.pl

„LUMEL” S.A.
 ul. Ślubicka 1
 65-127 Zielona Góra
 POLAND
WWW.LUMEL.COM.PL