

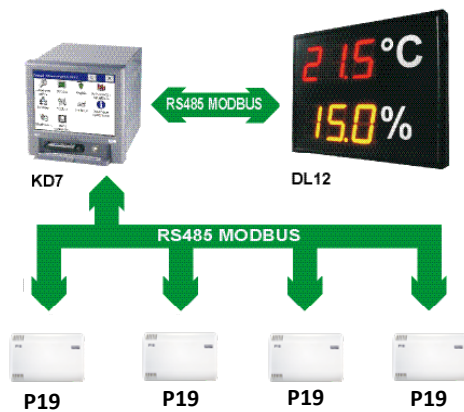


## P19 - TEMPERATURE AND HUMIDITY TRANSDUCER

- 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)

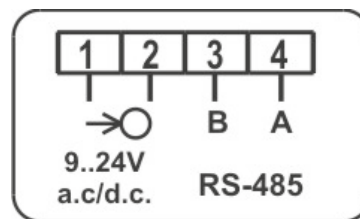


### EXAMPLE OF APPLICATION



Measurement and recording of temperature and humidity.

### CONNECTION DIAGRAM



Connection diagram of P19.

### CARACTÉRISTIQUES

### ISOLATION GALVANIQUE

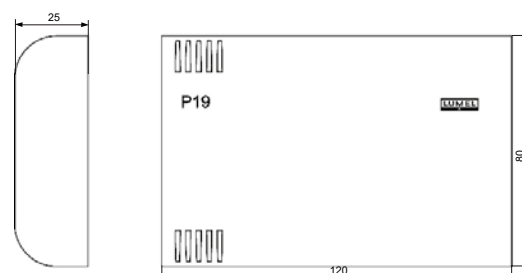


ENTRÉE

OUTPUTS



Operating position and overall dimensions of P19 transducer.



# P19 - TEMPERATURE AND HUMIDITY TRANSDUCER



## TECHNICAL DATA

### INPUTS

Measured value	Measuring range	Error
Temperature	-30 .. -20 .. 60 .. 80°C	+/- 0.6% 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	P18, P18D	9 .. 24V d.c./a.c.	input power < 0.5 VA
	P18L	19 .. 30V d.c.	input power < 1 VA
Temperature	ambient: -20...23...60°C		
Humidity	< 95%		inadmissible condensation
Preheating time	15 minutes		

### 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	

## ORDERING CODE

	P19 -	XX	E	X
Analog outputs - sensor:				
Version:				
standard		00		
custom-made*		XX		
Language:				
English			E	
Acceptance tests:				
without extra quality requirements				0
with quality inspection certificate				1
acc. 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 - user's manual in English

0 - without extra quality requirements.

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