

P30U TRANSDUCER OF TEMPER ATURE AND STANDARD SIGNALS

Features

Master

Monito

eCon Progran











ftp

Input





Output















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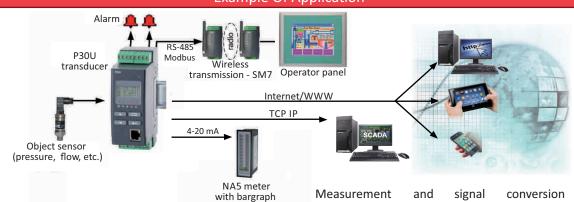


CE

- Universal measuring input.
- Version: standard, with SD card, with Ethernet and internal memory Mathematical functions, i.e median filter function on measured value
- Individual characteristic (up to 21 points).
- 1 or 2 (option) alarm output.
- Built-in power supply of object transducers 24V d.c. (option).
- RS-485 interface Modbus RTU Slave, RTU Master or Monitor.
- Modbus TCP Slave (option).
- Possibility record value to one measuring and simultaneously up to 50 read-out/ written values via RS-485 Modbus Master.
- Data recording in internal memory, up to 4MB or in external SD/SDHC card or **internal file system memory (8 GB) (op?on)**Transducer programmable using bu?ons, eCon freeware (through RS-485 or Ethernet) or any web browser (through Ethernet). Firmware upgradeable by the user.

with its visualization and retransmission.

Example Of Application



Input						
Input type	Nominal measuring range Z	Coefficiant k *	Input type	Range	Minimal sub-range with class preserva?on	
Voltage 10 V	-1010 V	4	Thermocouple J type	0400 °C	1	
Voltage 24 V	-2424 V	5	Thermocouple J type	-2001200 °C	2	
Current	-2020 mA	10	-1 1/4	0400 °C	1	
Resistance 400	0400	4	Thermocouple K type	-2001370 °C	2	
Resistance 2000	02000	2	Thermocouple S type	01760 °C	2	
Resistance 5500	05500	2	Thermocouple N type	-20420 °C	1	
Pt100	-200850 °C	5	Thermocouple is type	-2001300 °C	1	
Pt250	-200600 °C	4	Thermocouple E type	-40260 °C	1	
P1250	-200850 °C	3		-2001000 °C	2	
Pt500	-200180 °C	3	Thermocouple R type	01760 °C	2	
Pt500	-200850 °C	3	Thermocouple T type	-200400 °C	1	
Pt1000	-200250 °C	4	Thermocouple B type	4001800 °C	1	
P11000	-200850 °C	2		In the Master mode of RS-485 interface, the transducer can poll up to 50 registers from one device, with implemented		
Ni100	-60180 °C	1	the transducer can p from one device, Modbus protocol, us In this mode, it is not pos by another Master device RS-485 In the Master mode the transducer can monit connection and react (acc to the value of the frame device. The trans up to 50 registers from o			
Ni1000	-60150 °C	2				
Ni100-LG	-60180 °C	1			ol, using RS-485 interface.	
Ni1000-LG	-60180 °C	2		·		
Cu100	-50180 °C	1		✓ up to 50 registers from one device . In this mode, it is not possible to poll the transducer by another		
Voltage mV	-520 mV	1				
	-7575 mV	4				
	-200200 mV	4				

Accuracy class = 0.1 with the exception of N, E and T thermocouples, where accuracy class = 0.2 and S, R, and B thermocouples, where accuracy class = 0.5.

k* coefficiant of narrowing the measuring range with keeping the accuracy class.

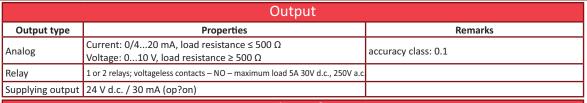
NOTE:Minimal sub-range with keeping the accuracy class is z/k (it is freely programmable).

Example: 10 Z = -10...10V;

k = 10 Z/k = 2 V, so the minimal sub-range can be e.g. -1...1 V; 0...2 V; 5...7 V



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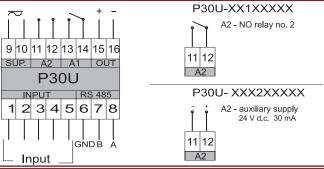
Digital Interface			
Interface type	Protocol	Baud rate	
RS-485	Modbus RTU: 8N2, 8E1, 8O1, 8N1; Address 1247	4.8, 9.6, 19.2, 38.4, 57.6, 115.2, 230.4, 256 kbit/s	

External Features			
Overall dimensions	45 x 120 x 100 mm		
Weight	< 0.25 kg		
Protection grade	for housing: IP40/ IP30	for terminals: IP20	
Readout field	LCD 2 x 8		
D : 10 : : 0 : 10:			

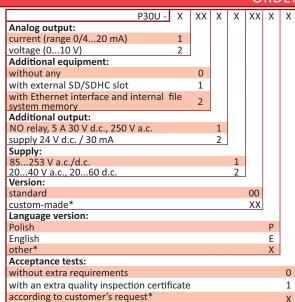
Rated Operating Conditions			
Supply voltage	• 85253 V d.c. / a.c. (40400 Hz)	Power consumption 6 VA	
Supply voltage	• 2040 V a.c. (40400 Hz) or 2060 V d.c.	Power consumption 6 VA	
Temperature	ambient: -25 <u>23</u> +55°C	storage: -30+70°C	
Relative humidity	2595 %	inadmissible condensation	
Working position	any		

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Safety and Compatibility Requirements			
Electromagnetic compatibility	noise immunity	acc. EN 61000-6-2	
	noise emissions	acc. EN 61000-6-4	
Isolation between circuits	basic	acc. EN 61010-1	
Pollution level	2		
Installation category	III	acc. EN 61010-1	
Maximal phase-to-earth voltage	for supply circuits 300 Vfor other circuits 50 V	dec. EN 01010 1	
Altitude above see level	< 2000 m		

Connection Diagram + - P30U-X



ORDERING



ACCESORIES:

SD CARD		
Capacity	Ordering code	
1 GB	20-199-00-00023	
2 GB	20-199-00-00025	

Order example:

Code P30U-111100P0 means transducer execution with current output, slot for SD/SDHC card, with 2 alarm relays, 85..253 V a.c. / d.c. (40...400 Hz) power supply, standard version, Polish language, without extra requirements.

* after agreeing with the manufacturer.

See Also



Temperature sensors



N30U meter



For more information about SIFAM's products please visit our website www.sifamtinsley.com/uk

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