

TRANSDUCERS, SEPARATORS



	P20 and P17 transducers				Separators		
	P20	P20Z	P21Z	P20H	P17	P20G	P17G
Input	programmable Pt100/250/500/1000, J, K, S, N 0/4...20, ±20 mA 0...5/10, ±5, ±10 V ±60, ±150 mV 0...400/4000 Ω	fixed 0..60/100/150/250/ 400/500/ 600 V a.c. 0..1/5 A a.c.	fixed 0...100/250/ /400 V a.c. 0...1/5 A a.c. 20...500 Hz	fixed 100, 250, 400 V d.c. ±100, ±250, ±400 V d.c. ±1, ±5 A d.c.	fixed Pt100 J, K, N, E, 0...10 V 0...60 mV	programmable 0/4...20 mA ±20 mA 0...5/10 V ±5V, ±10 V	0/4...20 mA
Output	0/4...20 mA or 0...10 V		0/4...20 mA or 0...10 V or RS-485 Modbus Slave		passive 0/4...20 mA	programmable -20...20 mA -10...10 V	active output 0/4...20 mA
Supply voltage	85...253 V a.c./d.c. or 20...85 V d.c./ 20...65 V a.c.	85...253 V a.c./d.c. or 20...40 V a.c./d.c.	85...253 V a.c. / 90...300 V d.c. or 20...40 V a.c. / 20...60 V d.c.		supplied from output current loop	85...253 V a.c./d.c. or 20...85 V d.c., 20...65 V a.c.	supplied from input current loop
Protection rating	IP40				IP50	IP40	IP50
External dimensions	22.5 x 120 x 100 mm				6.2 x 77.5 x 100 mm	22.5 x 120 x 100 mm	6.2 x 77.5 x 100 mm
Additional functions	free eCon software (using PD14 programmer)	-	free eCon software (using PD14 programmer)		-	free eCon software (using PD14 programmer)	-



	P30 transducers			
	P30U	P300	P30H	P30P
Input	programmable Pt100/250/500/1000, Cu100, Ni100, Ni1000 J, K, N, E, R, S, T, B 0...4/20, ±20 mA -5...20, ±75, ±200 mV, ±10 V, ±24 V 400, 2000, 5500 Ω, RS-485 Master or Slave	2 programmable inputs: pulse counter, frequency, rotational speed, period, operating time counter, pulse differential counter on inputs or encoder	d.c. network parameters programmable current using shunt ± 200 mV voltage 0...12/48/100/250 V voltage 0...600/1000V in set with additional D5 resistor	1-phase power network parameters fixed 1A (X/1A), 5A (X/5A) 100 V(x/100 V) or 250 V
Output	1 x analog 0/4...20 mA or 0...10 V 1 x relay NO 1 x additional NO relay optionally exchangeable with 24 V, 30 mA supplying output		1 x analog 0/4...20 mA or 0...10 V 1 x relay NO optionally exchangeable with additional analog output 0/4...20 mA or 0...10 V 1 x additional NO relay optionally exchangeable with 24 V, 30 mA supplying output	
Interface	RS-485 Modbus (Slave or Master) - standard Ethernet 10/100 Base-T - option			
Display	LCD 2x8 characters with LED backlight			
Supply voltage	85...253 V a.c./d.c. or 20...40 V a.c./20...60 V d.c.		85...253 V a.c., 85...300 V d.c. or 20...40 V a.c., 20...60 V d.c.	
Protection rating	IP40			
External dimensions	45 x 120 x 100 mm			
Programming	using buttons or free eCon software using RS-485 Modbus, Ethernet (option)			
Additional functions	<ul style="list-style-type: none"> alarms indicated on the display memory of min. and max. values (with time stamp) mathematic functions independent for both inputs filtration of periodic signals (only P300) 		<ul style="list-style-type: none"> internal memory 534336 samples data logging in internal memory or on SD card (optionally) WWW server, FTP, Modbus TCP/IP Slave (optionally) memory of min. and max. values 	



Power transducers			
	P41	P30P	P43
Input	programmable 1/5 A, 100/400 V 1-phase power network parameters	fixed 1/5 A, 100 or 250 V 1-phase power network parameters	fixed 1 or 5 A, 100 or 400 V 3-phase power network parameters
Output	1 x analog programmable ± 20 mA	1 x analog 0/4...20 mA or 0...10 V 1 x NO relay optionally exchangeable with additional analog output 0/4...20 mA or 0...10 V 1 x additional NO relay optionally exchangeable with 24 V, 30 mA supplying output	4 x relays or 2 x relay + 2 x analog programmable ± 20 mA or 4 x analog programmable ± 20 mA
Interface	RS-485 Modbus Slave	RS-485 Modbus (Slave or Master) - standard Ethernet 10/100 Base-T - option	RS-485 Modbus Slave
Display	-	LCD 2x8 characters with LED backlight	-
Supply voltage	85...253 V a.c./90...300 V d.c. or 20...40 V a.c./20...60 V d.c.	85...253 V a.c., 85...300 V d.c. or 20...40 V a.c., 20...60 V d.c.	85...253 V a.c./90...300 V d.c. or 20...40 V a.c./20...60 V d.c.
Protection rating	IP40		
External dimensions	45 x 120 x 100mm		90 x 120 x 100 mm
Programming	free eCon software using USB or RS-485	using buttons or free eCon software using RS-485 Modbus, HTTP (option)	free eCon software using USB or RS-485
Additional functions	<ul style="list-style-type: none"> memory for selected measured value – 9 000 samples memory of minimal and maximal values programmable current and voltage transformer ratios 	<ul style="list-style-type: none"> alarms indicated on the display internal memory 534336 samples programmable current and voltage transformer ratios WWW server, FTP, Modbus TCP/IP Slave (optionally) data logging in internal memory or on SD card (optionally) 	<ul style="list-style-type: none"> memory for average power – 9 000 samples memory of minimal and maximal values programmable current and voltage transformer ratios pulse output



P18 and P19 temperature and humidity transducers					
	P18L	P18	P18D	P18S	P19
Measurement range	-30 ... -20 ... 60 ... 85°C or 0...100% RH	-30 ... -20 ... 60 ... 85°C, 0...100% RH			-20 ... 60°C, 0...100% RH
Output	passive 4...20 mA	2 x 4...20 mA or 0...10 V (option)		-	
Interface	-	RS-485 Modbus			
Galvanic isolation	-	supply/ RS-485 (for version without analog outputs)		supply/ RS-485	
Supply voltage	19...30 V d.c. (supplied by a current loop)	9 ... 24 V d.c./a.c		9 ... 28 V d.c./a.c	9 ... 24 V d.c./a.c
Protection rating	IP65				IP20
External dimensions	38 x 58 x 118 mm			(sensor case) 86 x 12.5 mm	120 x 80 x 25 mm
Additional functions	-	<ul style="list-style-type: none"> calculation of other quantities (dew-point temp.; absolute humidity) 		<ul style="list-style-type: none"> memory of measured and calculated min. and max. values 	
		<ul style="list-style-type: none"> available version with sensor mounted on the wire 0.5 m 		<ul style="list-style-type: none"> wire to connect RS-485 and supply 	
		-	<ul style="list-style-type: none"> data presentation on a LCD display configuration of transmission parameters using the capacitive button 	-	-