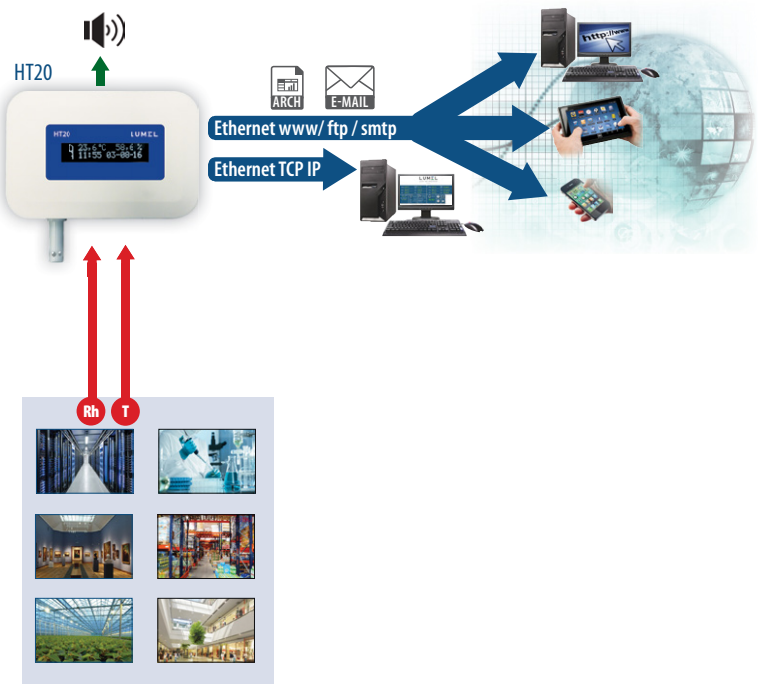
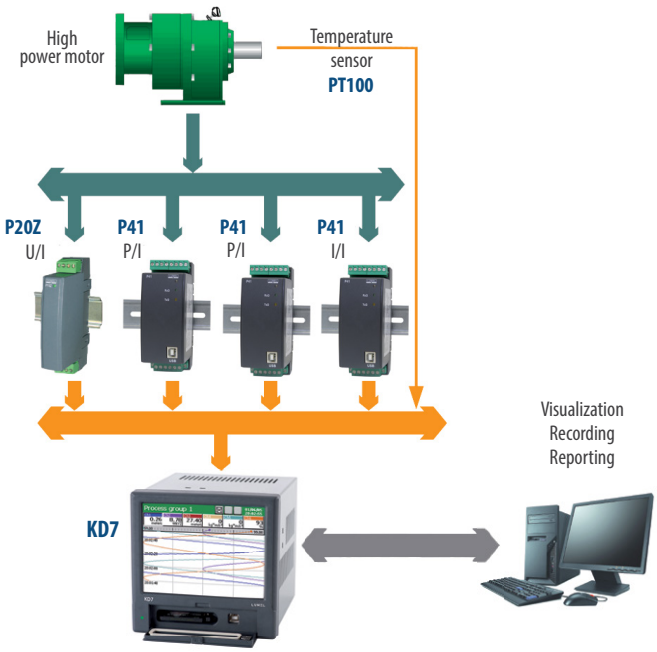
	HT20	HT25	KD7	KD8	SM61
Number of channels	up to 4 channels (T [°C], RH [%], a [g/m³], Td [°C])	up to 16 channels (4 channels reserved for data logging from P18S/P18/P18D)	up to 24 channels (max. 12 analog channels and/or max. 24 digital channels)	up to 6	up to 2500
Input	built-in temperature and humidity sensor	Modbus RTU Master	programmable (3, 6, 9 or 12 inputs) Pt100/500/1000, Ni100, Cu100, J, K, N, E, R, S, T, B, L, ± 20mA ± 9999mV 50...2000 Ω 0...2000 Ω logic input 0/5...24 V d.c. (8 or 16 pcs.) Modbus RTU Master (24 registers)	programmable (3 or 6 inputs) Pt100/500/1000 Ni100, Cu100, J, K, N, E, R, S, T, B, L, ± 20mA ± 9999mV 50...2000 Ω 0...2000 Ω logic 0/5...24 V d.c. (4 or 8 pcs.)	Port II: Modbus RTU Master, (100 groups 25 registers each) 2 x logic (option)
Output	Modbus TCP/IP		relays (8 or 16) relays OptoMOS (8 or 16) analog (4 or 8) 0...5, 0/4...20 mA 0... 5 V, 1...5 V, 0...10 V supplying output (2 x 24 V d.c. 30 mA)	relays (6 or 12)	Port I: Modbus RTU/TCP Slave, 2 x relays (option)
Measurement range	-20...60 °C, 0...100% RH	-	-	-	-
Interface	**Ethernet** (WWW, FTP, SMTP, DHCP)	1 x RS-485 (Modbus Slave or Master) **Ethernet** (WWW, FTP, SMTP, DHCP)	2 x RS-485 (Modbus Slave and Master) 1 x RS-232 (Modbus Slave) USB Device 1.1. **Ethernet** 10 Base-T	RS-485 (Modbus Slave) USB Device 1.1.	2 x RS-485 (Modbus Slave and Master) 1 x RS-232 (Modbus Slave) USB Device 1.1. **Ethernet** 10/100 Base-T
Memory	internal - 8GB		internal – up to 6 MB external – CF card up to 4 GB		1 GB
Display	LCD, 2 x 16 characters	LCD, 2 x 16 characters LED, 4 characters	LCD 5,7" TFT type 320 x 240 pixels with touch panel		-
Supply voltage	6 V d.c. or PoE IEEE 802.3af - option	12 V d.c. or PoE IEEE 802.3af - option	90...253 V a.c., 90...300 V d.c. or 18...30 V d.c.		85...253 V a.c., 90...300 V d.c. or 20...40 V a.c., 20...60 V d.c. or 10...16 V a.c., 10...20 V d.c.
Protecting rating	IP20		IP65		IP40/IP20
External dimensions	150 x 100 x 30 mm		144 x 144 x 171 mm	144 x 144 x 171 mm	45 x 120 x 100 mm
Additional functions	• data presentation on a LCD display and on website • email messages in case of alarm occurs • parameter configuration through a web browser • acustic signaling of alarm events		• many forms of data presentation: linear, bargraph, chart, • digital and analog indicators, • WWW and FTP Server (KD7) • Windows® CE operating system • PC software: KD SETUP, KD CHECK, KD CONNECT, KD ARCHIVE • user access levels • menu available in 8 language versions		• HTTP (WEB server -visualization in format of synoptic maps), • DHCP • FTP Server, • RTC
	-	• up to 90 monitored parameters (10 groups 9 register each) via web browser • up to 100 monitored parameters (10 group 10 register each) via Modbus TCP/IP • logging of 16 parameters (4 parameters reserved for P18S/P18/P18D)			

APPLICATION EXAMPLES

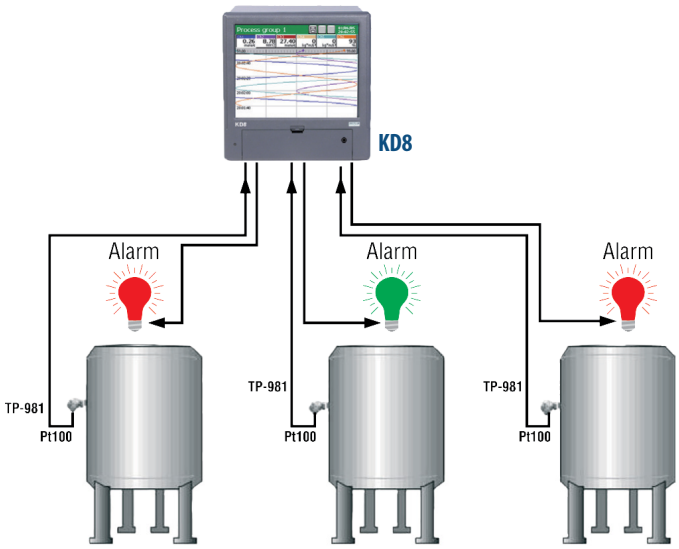
Access to the device from anywhere in the world thanks to the built-in web server.



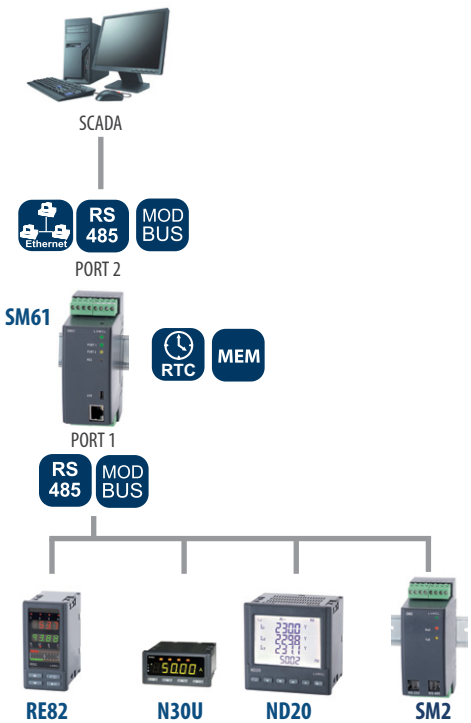
Measurement and visualization of motor working parameters (temperature and motor load)



Temperature measurement, logging and alarming



Archiving of process data



ORDERING CODES

HT20 ordering code:

HT20 -	X	X	XX	X	X
Supply*:					
6 V d.c.	1				
6 V d.c. , PoE IEEE 802.3af	2				
Accessories:					
none		0			
adapter 6 V d.c.		1			
Version:					
standard			00		
custom-made**			XX		
Language:					
Polish				P	
English				E	
other**				X	
Acceptance tests:					
without additional quality requirements					0
with an extra quality inspection certificate					1
acc.to customer's request					X

* - Monitors in version HT20 1XXXXX require an external power supply 6 V d.c., in version HT20 2XXXXX they can be powered either from Ethernet PoE (Power over Ethernet), as well as from the external power supply 6 V, D.C.

** - after agreeing with the manufacturer

HT25 ordering code:

HT25 -	X	X	XX	X	X
Supply*:					
12 V d.c.	1				
12 V d.c. , PoE IEEE 802.3af	2				
Accessories:					
none		0			
adapter 12 V d.c.		1			
Version:					
standard			00		
custom-made**			XX		
Language:					
Polish				P	
English				E	
other**				X	
Acceptance tests:					
without additional quality requirements					0
with an extra quality inspection certificate					1
acc.to customer's request					X

* - Monitors in version HT25 1XXXXX require an external power supply 12 V d.c., in version HT25 2XXXXX they can be powered either from Ethernet PoE (Power over Ethernet), as well as from the external power supply 12 V, D.C.

** - after agreeing with the manufacturer

KD8 ordering code:

KD8 -	X	X	X	X	XX	X
Measuring inputs:						
3 programmable measuring inputs	1					
6 programmable measuring inputs	2					
Alarms and logic inputs:						
without alarms and logic inputs		0				
alarms (NO relays) + logic inputs [1]		1				
Supply:						
90..253 V a.c.			1			
Softwares servicing the recorder from PC:						
KD Connect, KD Check				1		
KD Connect, KD Check, KD Archive, KD8 Setup				2		
Version:						
standard					00	
custom-made [2]					XX	
Acceptance tests:						
without extra quality inspection requirements						8
with an extra quality inspection certificate						7
with calibration certificate						4
acc. to customer's request						X

1) for each 3 measuring inputs a package with 6 alarms and 4 logic inputs is installed
2) after agreeing with the manufacturer

KD7 ordering code:

KD7 -	X	X	X	X	X	X	X	X	X	X	X
Measuring input (slot 1):											
without mesuring inputs	0										
6 programmable measuring inputs	1										
6 standard measuring inputs: 0...10 V	2										
6 standard measuring inputs: 0...20 mA	3										
6 standard measuring inputs: 4...20 mA	4										
6 standard measuring inputs: 3 x 0..10 V + 3 x 0..20 mA	5										
6 standard measuring inputs: 3 x 0..10 V + 3 x 4..20 mA	6										
3 programmable measuring inputs	7										
Measuring inputs (slot 2):											
without measuring inputs		0									
6 programmable measuring inputs		1									
6 standard measuring inputs [1]		2..6									
3 programmable measuring inputs		7									
Interface input:											
RS-485 (1) for measuring inputs			1								
Digital signals/analog outputs (slot 3):											
without digital signals and analog outputs				0							
8 alarms (NO relays) + 8 alarms (OptoMos)				1							
8 alarms (NC relays) + 8 alarms (OptoMos)				2							
8 digital inputs + 4 analog outputs: 0...5 mA				3							
8 digital inputs + 4 analog outputs: 0...20 mA				4							
8 digital inputs + 4 analog outputs: 4...20 mA				5							
8 digital inputs + 4 analog outputs: 0...5 V				6							
8 digital inputs + 4 analog outputs: 0...10 V				7							
Digital signals/analog outputs (slot 4):											
without digital signals and analog outputs					0						
8 alarms (NO relays) + 8 alarms (OptoMos)					1						
8 alarms (NC relays) + 8 alarms (OptoMos)					2						
8 digital inputs + 4 analog output [2]					3..7						
Interface:											
USB						1					
USB + Ethernet + RS-485 (2)						2					
USB + Ethernet + RS-232						3					
Memory for measuring data:											
with a 4 GB CF card [3]							6				
as per order [4]							X				
Supply:											
90...253 V a.c.								1			
Recorder firmware:											
without mathematical functions [5]									0		
with mathematical functions									1		
Softwares servicing the recorder from PC:											
KD Connect, KD Check										1	
KD Connect, KD Check, KD Archive, KD7 Setup										2	
Acceptance tests:											
without extra quality inspection requirements											8
with an extra quality inspection certificate											7
with calibration certificate											4
acc. to customer's request											X

1) - write the range code from the item 2...6 as above: (Slot 1)
2) - write the range code from the item 3...7 as above: (Slot 3)
3) - CF card with the lowest capacity from currently accessible cards on the market
4) - after agreeing with the manufacturer (it is recommended to use a 4 GB CompactFlash card from ScanDisk company)
5) - a key for the activation of mathematical functions can be ordered separately

SM61 ordering code:

SM61 -	X	X	XX	X	X
Supply voltage:					
85...253 V a.c., 90...300 V d.c.	1				
20...40 V a.c., 20...60 V d.c.	2				
10...16 V a.c., 10...20 V d.c.	3				
Input/output:					
2 relays		1			
2 logic inputs		2			
Version:					
standard			00		
custom-made*			XX		
Language:					
Polish				P	
English				E	
other*				X	
Acceptance tests:					
without extra requirements					0
with an extra quality inspection certificate					1
acc. to customer's request*					X

* after agreeing with the manufacturer