



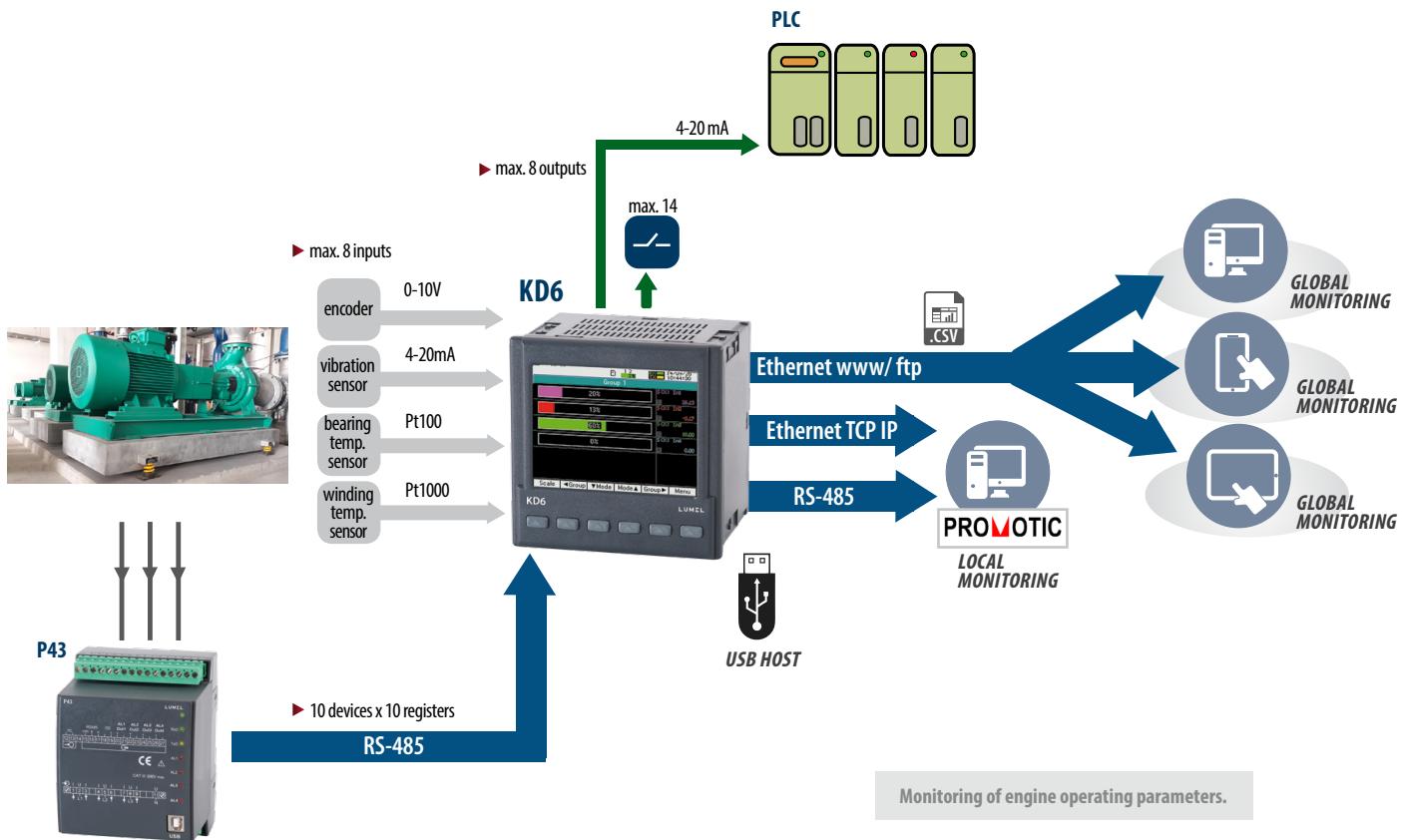
**NEW**

## KD6 - SCREEN RECORDER



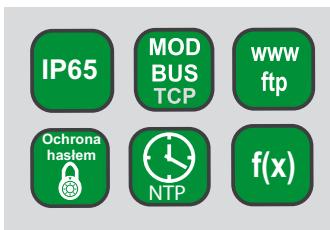
- **Up to 60 logical channels** (max. up to 8 analog channels).
- Input:
  - measuring programmable (0,4 or 8),
  - binary (2 or 6),
  - digital Modbus RTU Master (10 devices up to 10 registers).
- Outputs:
  - relays (2, 6 or 8),
  - analog 0/4...20mA (0, 4 or 8),
  - supplying output 24V d.c. / 30mA,
  - digital RS-485 Modbus.
- **Graphical color display:** LCD TFT 3.5", 320 x 240 pixels, **fully configurable by a user.**
- Archiving of measured parameters in the internal file system memory with a capacity of 8GB.
- Data logging in the form of CSV.
- Extensive alarm, math and scaling functions.
- Data presentation in digital form, in form of analog indicators, line charts, bargraphs.
- Independent recording for each group of logical channels (interval, registration trigger mode).
- Built-in USB HOST 2.0.
- **Modern and user-friendly Ethernet interface** 10/100 BASE-T:
  - protocol: MODBUS TCP/IP, HTTP, FTP,
  - services: www server, ftp server, DHCP client.
- Programming of parameters using **free eCon software**.
- NTP client for synchronization with a time server.
- Overall dimensions: 96 x 96 x 77 mm.

### EXAMPLE OF APPLICATION



# KD6 - SCREEN RECORDER

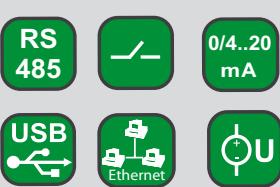
## FEATURES



## INPUTS



## OUTPUTS



## GALVANIC ISOLATION



## TECHNICAL DATA

### INPUTS

Sensor type / Input signal	Standard	Range		Basic error
RTD	EN 60751:2009	-200...850 °C	-328...1562 °F	0.2%
PT100		-200...850 °C	-328...1562 °F	
PT500		-200...850 °C	-328...1562 °F	
PT1000		-100...1200 °C	-148...2192 °F	
Fe-CuNi (J)		-100...400 °C	-148...752 °F	
Cu-CuNi (T)		-100...1370 °C	-148...2498 °F	
NiCr-NiAl (K)		-5...1760 °C	23...3200 °F	
PtRh10-Pt (S)		-5...1760 °C	23...3200 °F	
PtRh13-Pt (R)		200...1820 °C	392...3200 °F	
PtRh30-PtRh6 (B)		-100...1000 °C	-148...1832 °F	
NiCr-CuNi (E)		-100 ...1300 °C	-148...2372 °F	
NiCrSi-NiSi (N)				
Voltage		±10 V, ±300 mV, ±75 mV, 10 V, 300 mV, 75 mV,		
Current		±40 mA, 40 mA		
Resistance R		0...4000 Ω		

### ADDITIONAL INPUTS

Binary inputs	2 or 6 inputs; 0 V d.c. – inactive binary input, 5...24 V d.c. – active binary input
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### OUTPUTS

Output type	Properties
Analog	current: 0/4 .. 20 mA programable, load resistance ≤ 400 Ω
Relays	2, 6, 8 relays, NOC, load 250V / 0,5A a.c. or 30V / 5A d.c.
Supplying output	1x output 24V d.c. /30 mA

### DIGITAL INTERFACE

Interface type	Properties
RS-485	1x Modbus Master/Slave interface 1x Modbus Slave interface Transmission mode Modbus RTU: 8N2, 8E1, 8O1 Baudrate: 9.6, 19.2, 38.4, 57.6, 115.2 kbit/s Address:1...247
Ethernet	Modbus TCP/IP, NTP protocol WWW server, FTP server, DHCP client
USB	10/100 Base-T HOST 2.0 RJ45 socket

### EXTERNAL FEATURES

Readout field	graphical color display: LCD TFT 3.5", 320 x 240 pixels	
Overall dimensions	96 x 96 x 77 mm	panel cut-out dimensions: 92.5 x 92.5 mm
Weight	0.3 kg	
Protection grade	frontal side: IP65	from terminal side: IP20

# KD6 - SCREEN RECORDER

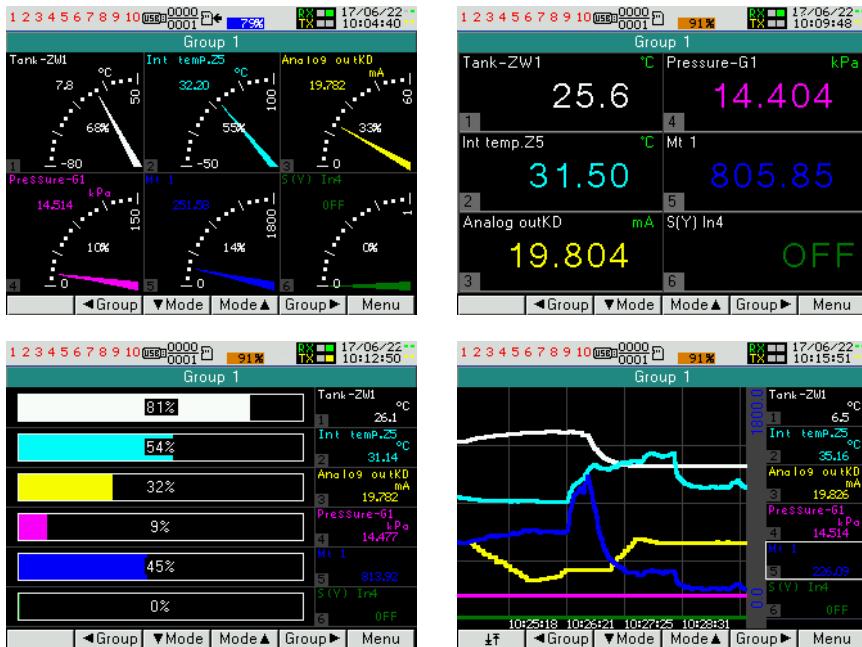
## RATED OPERATING CONDITIONS

<b>Supply voltage</b>	→ 85...253 V a.c. (40...50...60 ... 400 Hz), 90...300 V d.c. or 20...60 V d.c.	power consumption ≤ 12 VA
<b>Preheating time</b>	30 min.	
<b>Ambient temperature</b>	-10...23...55°C, K55 class acc. to EN61557-12	
<b>Humidity</b>	0...40...60...95%	without condensation
<b>Operating position</b>	any	
<b>Additional error (in % of the basic error)</b>		from ambient temperature change: < 50% / 10°C

## SAFETY AND COMPABILITY REQUIREMENTS

<b>Electromagnetic compatibility</b>	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
<b>Isolation between circuits</b>	basic	acc. to EN 61010-1
<b>Polution level</b>	2	acc. to EN 61010-1
<b>Installation category</b>	III	acc. to EN 61010-1
<b>Maximal phase-to-earth voltage</b>	• for supply circuit and relay outputs 300 V • for measuring input 50 V • for circuits of RS-485, Ethernet, analog outputs: 50 V	acc. to EN 61010-1
<b>Altitude a.s.l.</b>	< 2000 m	

## DATA VISUALISATION

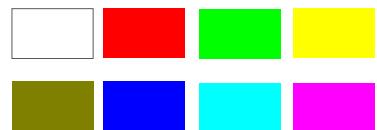


Various forms of data presentation:

- line charts
- digital indicators
- analog view
- bargraphs

up to 10 programmable screens  
(6 parameters per page);  
ability to change color for all screens

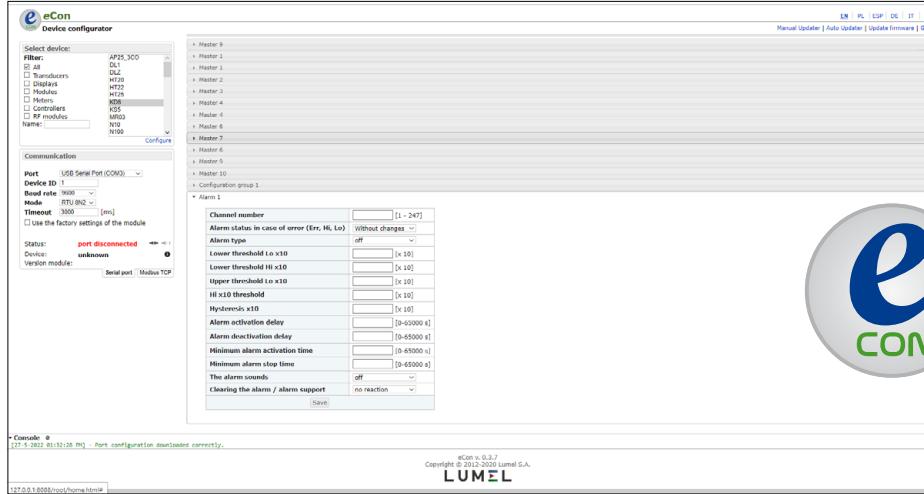
Available colors for digital indications:



Easy to use and intuitive menu;  
information bar with status of:  
logical group archiving, USB port status,  
status of used memory storage,  
Ethernet and RS-485 interface,  
time and data.

# KD6 - SCREEN RECORDER

## RECORDER CONFIGURATION WITH FREE eCON SOFTWARE



ability to configure and update of KD6  
with free eCon software  
(via RS-485 or Ethernet interface)



Saving the configuration to a file  
and loading to many of the same recorders  
or creating a backup copy.

## REMOTE READOUT OF PARAMETERS THROUG ETHERNET: WWW SERVER, FTP

www server for remote reading  
of current measurement data;  
FTP server for downloading  
archived data in CSV files

Nazwa pliku	Rozmiar pliku	Typ pliku	Data modyfikacji	Prawa dost...	Właściciel...
07133850.CSV	454 272	Microsoft E...	2021-09-07	-----	0 0
07152387.CSV	454 272	Microsoft E...	2021-09-07	-----	0 0
07179941.CSV	454 344	Microsoft E...	2021-09-07	-----	0 0
07185412.CSV	454 272	Microsoft E...	2021-09-07	-----	0 0
07223456.CSV	454 272	Microsoft E...	2021-09-07	-----	0 0
07223456.CSV	454 272	Microsoft E...	2021-09-07	-----	0 0
08000533.CSV	454 272	Microsoft E...	2021-09-08	-----	0 0
08015440.CSV	454 272	Microsoft E...	2021-09-08	-----	0 0
08033947.CSV	454 272	Microsoft E...	2021-09-08	-----	0 0
09002454.CSV	454 272	Microsoft E...	2021-09-08	-----	0 0
09071002.CSV	454 272	Microsoft E...	2021-09-08	-----	0 0
09085625.CSV	454 272	Microsoft E...	2021-09-08	-----	0 0
09121054.CSV	454 272	Microsoft E...	2021-09-08	-----	0 0
09141691.CSV	454 277	Microsoft F...	2021-09-08	-----	0 0
09160127.CSV	454 272	Microsoft E...	2021-09-08	-----	0 0
09174634.CSV	454 272	Microsoft E...	2021-09-08	-----	0 0
09191141.LST	454 344	Microsoft E...	2021-09-08	-----	0 0
09211649.CSV	454 272	Microsoft E...	2021-09-08	-----	0 0
09230156.CSV	454 272	Microsoft E...	2021-09-09	-----	0 0
09904703.CSV	454 272	Microsoft E...	2021-09-09	-----	0 0

# KD6 - SCREEN RECORDER

## ORDERING CODE

	KD6	X	X	X	XX	X	X
<b>I/O module – slot X*:</b>							
4 x programmable measuring inputs module		4					
<b>I/O module – slot Y:</b>							
without module			0				
6 x relay outputs module			1				
4 x relay outputs module + 4 x binary inputs separated from each other			2				
4 x analog outputs module + 4 x binary inputs with common ground			3				
4 x programmable measuring inputs module			4				
<b>Supply voltage:</b>							
85...253 V a.c., 90...300 V d.c.			1				
20...60 V d.c.			2				
<b>Version:</b>							
standard			00				
custom-made**			XX				
<b>Language:</b>							
Polish/English			M				
other*			X				
<b>Acceptance tests:</b>							
with test certificate			0				
with calibration certificate			2				
acc.to customer's request**			X				

\* all possible variants for slot X are described in the user manual in chapter 11

\*\* only after agreeing with the manufacturer

KD6-19\_en



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