

SINGLE – CHANNEL METER CL 361 FOR STRAIN GAUGE SENSORS VOLTAGE POWERED

- logging from a single strain gauge sensor powered 10 VDC or 5 VDC voltage
- encapsulated (230 V) or pannel (10 ÷ 30 V) version
- printer and PC ready via communication outputs RS485 or RS 232 (optional via converter RS/USB)
- communication protocoll MODBUS RTU slave



Pannel version of CL 361

The digital device CL 361 is logging signals from a single strain gauge sensor powered 10 VDC or 5 VDC voltage.

The device is offered in two versions – as a encapsulated unit in casing (powered 230 V) with a built-in feeder or as a pannel unit to erect (powered 24 V). To the meter can be attached directly any optional sensor (e.g. force sensor, weight load cell, pressure sensor) with a strain gauge bridge.

The CL361 encapsulated has only one communication output RS232 or only one RS485 (and the standard is RS232). The pannel version of CL 361 can be equipped with two RS. Both versions can be equipped with optional converter RS / USB.

Specifications:		
Number of measuring channels		1
Sensors' resistance		120 ÷ 4300 Ω
Sensors' power supply	[V dc]	10 or 5
Resolution of A/C converter		min. 100000 graduations + sign
Nonlinearity of A/C	[%]	<0,002
Measurement time	[S]	from 0,1
Insulation voltage for in series	[V]	> 150
connections		
Insulation voltage for analog inputs	[V]	> 150
Insulation voltage for relays	[V]	> 150
Type of averaging		arithmetic mean from 1 ÷ 50 measurements
Additional functions		minimum and maximum, tare, comparation,
		correction of sensors' nonlinearity
Tare	[% of nominal]	0 ÷ 100
LED display		6 digits + 2 as number of function, 4 information leds
Minimal indication		-199999
Maximal indication		999999
Hight of digits		13 mm (for measurement results)
		8 mm (number of function)
Colour of digits		green
Communication outputs (optional)		1 or 2 independent (RS232 or RS485 or
		RS232 and RS485 or both RS485
		and optional converter RS/USB)*
- protocoll		MODBUS RTU - slave
 parameters of transmission 		19200/9600/4800/1200 bps, 8 data bits, 1 or 2 stop
		bits, parity: none, odd or even
Types of comparison		upper alarm, lower alarm, alarm in interval, alarm
		beyond interval
Analog current / voltage outputs		4 ÷ 20 mA or -10 V ÷ +10 V
(optional)		

Supply voltage	[V DC]	10 ÷ 30 (pannel version)
Supply voltage	[V AC/50 Hz]	230 (encapsulated version)

Maximal current consumed by device under load of strain gauge sensors with resistance 350 Ω powered 10 VDC:

Device supply	1 sensor	3 sensors
10,0 VDC	390 mA	480 mA
12,0 VDC	330 mA	400 mA
24,0 VDC	190 mA	220 mA
30,0 VDC	165 mA	190 mA

Operating temperature range	[°C]	-20 ÷ + 50
Dimentions of encapsulated CL361 (width/hight/depth)	[mm]	195 × 85 × 240
Dimentions of pannel CL 361 (width/hight/depth)	[mm]	96 × 48 × 190

* Number of accessible connections depends on version of device.

Example of options for ordering: CL361-SxxxΩ-Rx-USBx-Wx-Hx

CL361- Sxxx – sensors' resistance from 120 up to 4300Ω ; Rx – number and kind of connections: R1 – RS232; R2 – RS232 and RS485; R3 – both RS485; R4 – only RS485; USBx – converter RS/USB; USB0 – without converter; USB1 – with converter RS232-USB; USB2 – with converter RS485-USB; Wx – current output or voltage output: W0 – without outputs; W1 – current output, W2 – voltage output; Hx – type of casing: H0 – pannel version, H1 – encapsulated version with a built-in feeder 230 VAC

Example for ordering: CL361-S350Ω-R1-USB0-W1-H1

Sensors' resistance – 350Ω ; communication output RS232; without converter USB; neither current nor voltage output; encapsulated version with a built-in feeder 230 VAC