

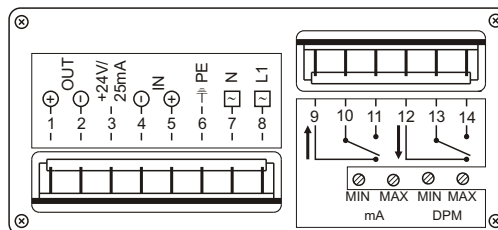
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Digital display Type M7829



Technical description



Rear view with alarm contacts

The M7829-A and M7829-AR are panel mounted display units to display physical units as: pressure, weight, RPM, temperature, voltage, current, %, ppM etc.

Input signals are voltages, currents, frequencies etc.

A 24VDC or 6.9VDC 2-wire supply is available on the screw terminal strip to feed transducers and converters. External supplies are not necessary with this option and 2-wire transmitters as pressure transducers etc. are supplied via this two terminals.

The M7829-A has a 3½- resp. 4½ digit LCD or LED display and an optional current- or voltage signal is obtainable.

The M7829-AR has two floating alarm contacts.

Example:

A 2-wire pressure transducer is installed near the bottom of a process vessel. The M7829 shows the 4...20mA signal as 0...100.0% with the numeric display. A new output signal of 0...10V for 90...100.0% is generated to be fed to a data logger.

A limit contact, set at 90.0%, is connected to a alarm unit to signal "high level".

How to order:

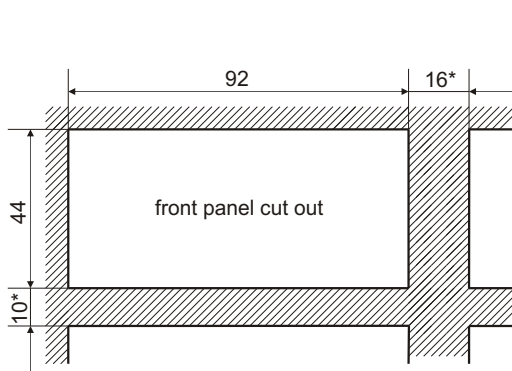
M7829-AR	(with alarm contacts)
Input signal:	4...20mA
Display:	0...100.0%
Output voltage :	0...10V=90...100%
Supply:	230VAC

Technical Data:

Signal input:	0/4...20mA any signal in the range of $\square 10\text{mV} \dots \square 500\text{V}$
Connecting a 2-wire transmitter:	Range = 4...20mA, (+) = terminal 6, (-) = terminal 4
Display:	- 3½ digit liquid crystal 12,7mm - 4½ digit liquid crystal 10,2mm - 3½ digit red, 13,8mm
Output signal:	0/4...20mA, 0...10V, others on request
Accuracy at 23°C ambient:	3½ digit display: ± 1 digit, 4½ digit display: ± 2 digit
reproducibility:	3½ digit display: ± 1 digit, 4½ digit display: ± 2 digit
temperature coefficient:	zero drift: typ. 30ppM/°C, gain drift: typ. 25ppM/°C
Long-term stability (3 month):	3½ digit display: ± 1 digit, 4½ digit display: ± 3 digit
Working temperature:	-5 to +45°C
Max. humidity:	95%, non-condensing
Max. length of output signal cable:	300 meters, 3-wire shielded
Max. length of output signal cable:	2000 meters, 2-wire
Max. current signal loading:	<500Ω (=10V/20 mA)
Output current signal impedance:	>2MΩ
Power supply:	115/230VAC 50-60Hz at 5,5VA, optional: 24VAC, 24VDC
CE-conformity:	fulfilled
Zero-/gain calibration:	separate for signal and display
Calibration:	In accordance with DIN, ± 1 digit
Alarm contacts:	adjustable over the full range
Hysteresis:	± 10 digit, others on request
Contact rating:	Change over 6A/230VAC with resistive load
Contact debouncing:	R/C-filter 33nF/100Ω on the normally open contact, on request
Adjustment of the limit contacts:	20 turn potentiometers with screwdriver slot
Show the limit values:	with two front accessible toggle switches \uparrow or \downarrow
Display the alarm contacts status:	by red LED-lamps
Terminals:	8 screw terminals for M7829-A, 6+8screw terminals for M7829-AR
Terminal description:	1 = current output (+) 8 = Power supply L1 2 = current output (-) 9 = upper LC, norm. closed. 3 = 24VDC/25mA 10 = upper LC, change over 4 = signal input (+) 11 = upper LC, norm. open 5 = signal input (-) 12 = lower LC, norm closed. 6 = power supply PE 13 = lower LC, change over 7 = power supply N 14 = lower LC, norm. open.
(LC = alarm contact)	
Mounting/weight:	2 clamps, 395g
Warranty:	2 years
Options:	- Output current- or voltage signal - AC signal input - Frequency input - other power supply (24VAC/DC etc.)
How to order:	M7829-AR (with alarm contacts) input 4...20mA, display 1,00...10,00bar, signal output 4...20mA = 7,00...10,00bar

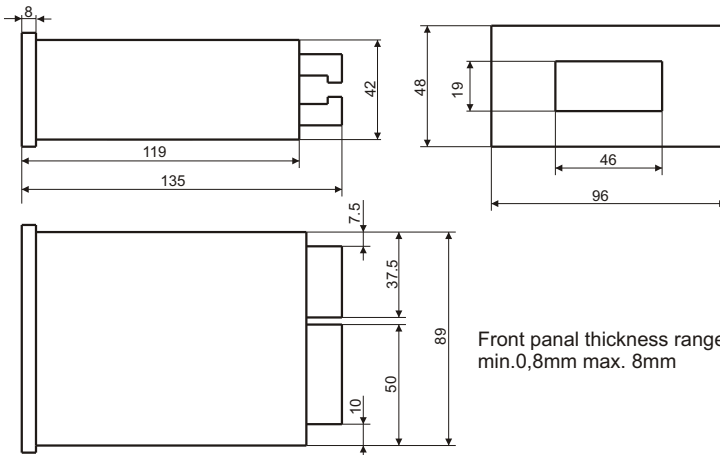
Option: The mode of the relay contacts can be changed. From energized to deenergized when exceeding the alarm value. The lower alarm is changed by the jumper J1A/B, the higher with jumper J2A/B. JXA = energizing the relay, JXB = deenergizing when the alarm value is exceeded.

Cut out dimensions:



*min. distance from one instrument to the next

Dimensions:



Front panel thickness range min. 0,8mm max. 8mm

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