



OEM Ability!

RUSSIAN MANUFACTURER
OF PROCESS CONTROL INSTRUMENTS



MTI-100 High accuracy manometer



MTI-100/M2,
MTI-100/M4
316 L housing



Intelligent pressure meters with digits/bargraph LCD display,
peak hold and data logging functions

Pressure types

Pressure types	Range
Absolute	16 kPa to 2.5 MPa
Gauge	10 kPa to 60 MPa
Compound	±0.125 kPa to (-0.1 to 2.4) MPa

High metrology specifications

Specifications	
Accuracy	±0,1 %
Long term accuracy	±0,075 % / 3 year
Temperature error	±0,1 % / 10 °C
Number of bargraph ranges	6
"intrinsically safe" model	Ex (0ExialIBT6 X)
Output signals (optional)	4...20 mA; 0.8...3.2 V; 0...5 V

Stand-alone operation

Sample time	Battery life
5 s	2 years
60 s	5 years

- Sample time programmed within 1...255 range
- Lithium thionyl chloride battery (-40...+70 °C)

Wetted materials

- Stainless steel 316 L
- Hastelloy C
- Tantal
- Monel
- PTFE
- Gold-plated



Rotation
90°, 180°, 270°

Informative display

- Digital LCD display with bargraph and bright backlight
- Waterproof keypad for device configuration
- Programmable backlight on/off
- Engineering units (kPa, MPa, bar, mbar, psi)
- Displayed parameters: setpoints, bargraph, peak values, battery charge, time
- Display rotation — 90°, 180°, 270°

Models



MTI-100/M1

LCD display with basic data fields

MTI-100/M2

LCD display with additional data fields (setpoints, scale, peak values, battery charge, time)

MTI-100/M3

Compact enclosure, LCD display with additional data fields (setpoints, scale, peak values, battery charge, time)

MTI-100/M4

USB for data logging LCD display with additional data fields (setpoints, scale, peak values, battery charge, time)

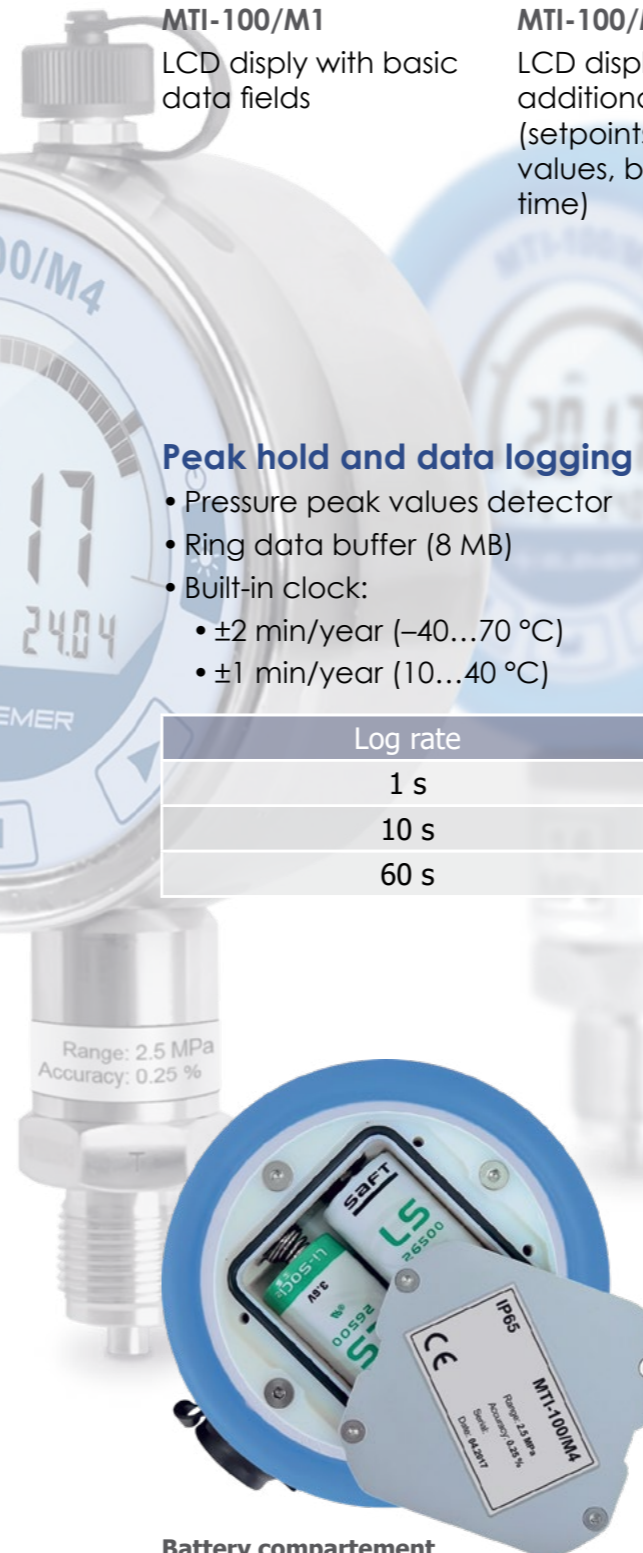
Peak hold and data logging

- Pressure peak values detector
- Ring data buffer (8 MB)
- Built-in clock:
 - ±2 min/year (-40...+70 °C)
 - ±1 min/year (10...40 °C)

Log rate	Log capacity
1 s	18 days
10 s	6 months
60 s	3 years



MTI-100/M4
and USB flash stick



Battery compartment

Operating temperature

Battery type	Temperature range	Model
Alcaline	-10 to +50 °C	MTI-100/M1, MTI-100/M3
Lithium thionyl chloride	-40 to +70 °C	MTI-100/M2, MTI-100/M4

Vibration-proof specifications





- Standard delivery — 150 Hz/2 g/0,35 mm
- Vibration-proof model — 2000 Hz/10 g/0,75 mm

MTI-100

Precision manometer gage

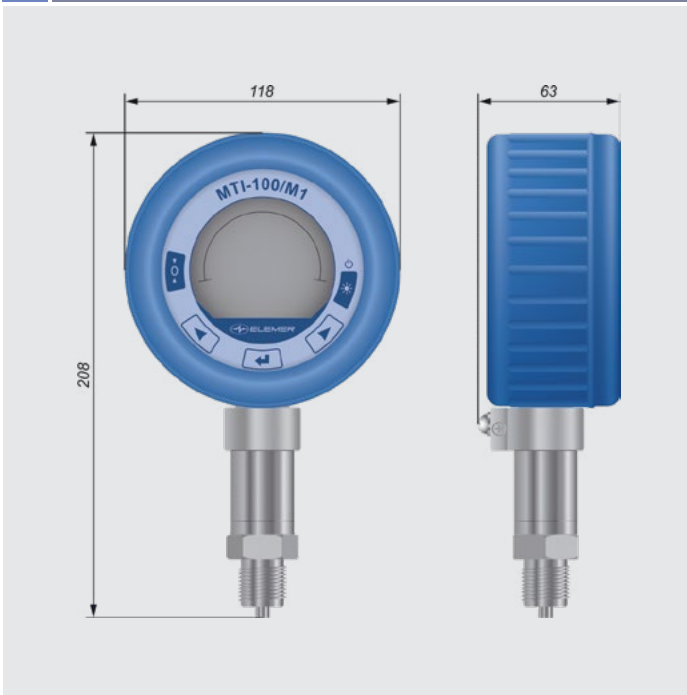


Technical features

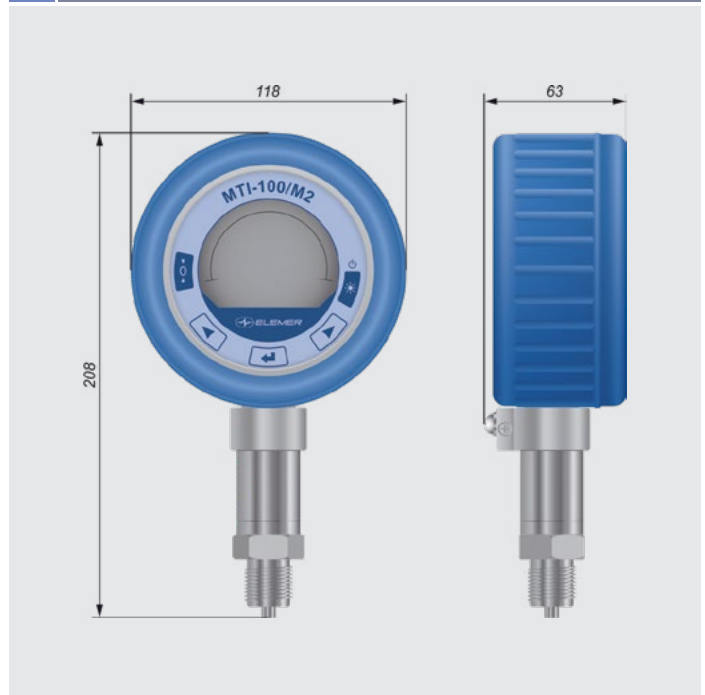
		MTI-100/M1	MTI-100/M2, MTI-100/M2NG	MTI-100/M3	MTI-100/M4, MTI-100/M4N
Parameter					
Full scale values	Absolute pressure	16 kPa to 6 Mpa			
	Manometric pressure	1 kPa to 60 Mpa			
	Manometric negative pressure	±0.125 kPa to (–0.1 to 2.4) MPa			
Body diameter, mm		100	100	80	100
Body material		Aluminum alloy	<ul style="list-style-type: none"> Aluminum alloy Stainless steel 	Plastic	<ul style="list-style-type: none"> Aluminum alloy Stainless steel
Indication		LCD display without additional fields	LCD display with additional fields to show selected parameters		
Power (batteries)		3 × AA Alkaline	3 × AA Li/SOCI2	3 × AA Alkaline	3 × AA Li/SOCI2
Measurement units		Pa, kPa, MPa, kgs/cm ² , bar, %, (upon a separate request: kgs/m ² , atm, mm H ₂ O, mm Hg)			
Number of rescalable ranges		6			
Scaling range		1:10			
Time of independent work		<ul style="list-style-type: none"> 2 years — if measurement frequency is once every 5 seconds 5 years — if measurement frequency is once every 60 seconds 			
Configuring		Waterproof external keypad			
Accuracy		A(±0.1 %), B (±0.25 %), C (±0.4 %), D (±0.6 %)			
Climatic version, °C		<ul style="list-style-type: none"> +5...+50 –5...+50 –10...+50 	<ul style="list-style-type: none"> +5...+50 –5...+50 –25...+70 –40...+70 	<ul style="list-style-type: none"> +5...+50 –5...+50 –10...+50 	<ul style="list-style-type: none"> +5...+50 –5...+50 –25...+70 –40...+70
Output signals (optional)		4...20 mA; 0.8...3.2 V; 0...5 V			
Dust and moisture protection		IP65			
Vibration resistance		<ul style="list-style-type: none"> Basic version — 150 Hz/2 g/0,35 mm Vibration-resistant version — 2000 Hz/10 g/0,75 mm 			
Versions		<ul style="list-style-type: none"> General industrial Ex — intrinsically safe electric circuit 			
Backup, USB-Flash		—			+
Recalibration interval		3 years			
Warranty period		5 years			

Exterior and dimensions

MTI-100/M1



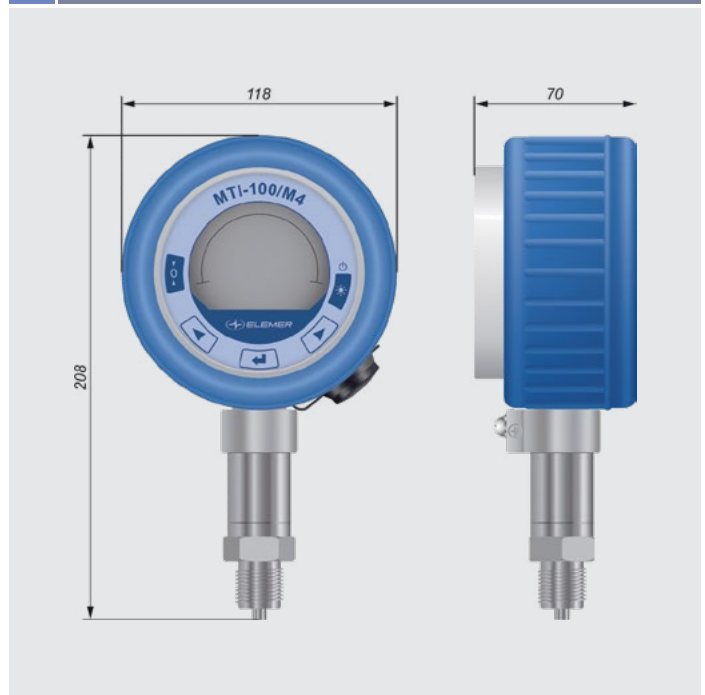
MTI-100/M2



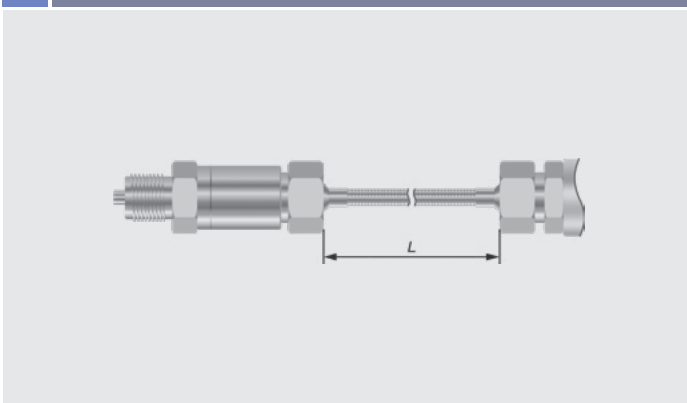
MTI-100/M3



MTI-100/M4



Remote sensor



Version of process connection with a remote sensor

- MTI-100/M1
- MTI-100/M2
- MTI-100/M4



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