

پتروفرهان گستر جنوب



FGJ-NDT . IR  
DIGINDT . IR

+982165565901  
+982144584619  
+989034119385



GM511

## Pressure Manometer Operation manual



Tehran, Tehransar

## پتروفرهان گستر جنوب

### Features

1. Large LCD
2. Data hold
3. With differential mode and record mode
4. USB port
5. Reset and data adjustment
6. Low battery indication and automatic power off

### Technical index

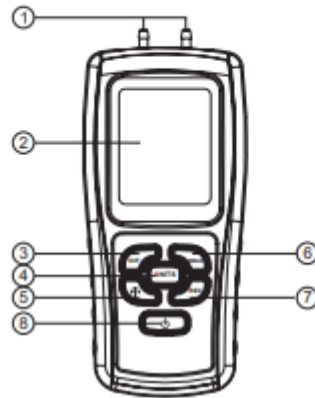
Measuring range	GM510/GM511: $\pm 10$ kPa; GM520: $\pm 35$ kPa
Accuracy	$\pm 0.3\%$ FSO (25°C)
Repeatability	$\pm 0.2\%$ (Maximum $\pm 0.5\%$ FSO)
Linearity/hysteresis	$\pm 0.29\%$ FSO
Response	Typical 0.5 s
Low battery indication	Yes
Up overload indication	Err1
Down overload indication	Err2
Operating temperature	0~50°C
Storage temperature	-10~60°C
Power supply	1.5V AAA battery*4
USB communication	Yes

Model	Unit	Range	Resolution	Maximum pressure
GM510	bar	0.100	0.001	0.500
GM520		0.350		1.500
GM510	mbar	100.0	0.1	500.0
GM520		350.0		1500.0
GM510	kPa	10.00	0.01	50
GM520		35.00		150
GM510	kgf/cm <sup>2</sup>	0.101	0.001	0.509
GM520		0.356		1.529
GM510	mmHg	75.0	0.1	375.0
GM520		262.5		1125.0
GM510	cmH <sub>2</sub> O	101.9	0.1	509.5
GM520		356.6		1528.5
GM510	Ozf/in <sup>2</sup>	23.20	0.01	116.00
GM520		81.20		348.00
GM510	psi	1.450	0.001	7.251
GM520		5.076		21.755
GM510	inHg	2.95	0.01	14.76
GM520		10.33		44.29
GM510	inH <sub>2</sub> O	40.1	0.1	200.5
GM520		140.3		601.5
GM510	ftH <sub>2</sub> O	3.34	0.01	16.70
GM520		11.69		50.10

Environmental temperature compensation  
Applicable to GM511/GM520, but not to GM510

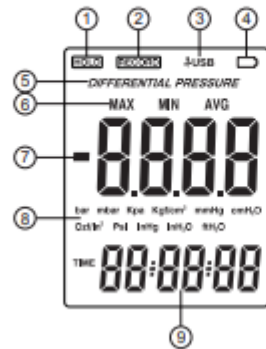
## Panel

1. Pressure input
2. LCD
3. DIF mode key
4. Unit shift key
5. Backlight key
6. HOLD key
7. Record key
8. Power key



## Display

1. Data hold function
2. Record mode
3. USB communication
4. Low battery indication
5. DIF mode
6. Minimum/maximum value
7. Main display
8. Pressure unit
9. Record time



## Application

Widely applied in measuring the pressure of fans, resistance/wind velocity/oven pressure/differential pressure of filter, and monitoring the gas content in the air in process of combustion.

## Definition of pressure

The pressure in this manual refers to the intensity of pressure, the force applied on a square unit.

absolute pressure: Difference between the reading and the absolute zero.

Positive pressure means that the right pressure is bigger than the left one.

Negative pressure means that the left pressure is bigger than the right one.