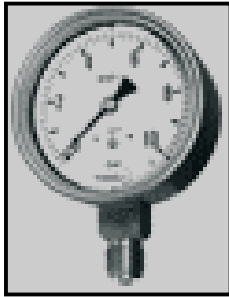


DIGITAL/ANALOGUE TYPE PRESSURE GAUGES/CONTROLLERS

MAPG/MDPG--Series

Introduction: MAPG/MDPG series of pressure gauges/controllers are available in more than 100 different modes, virtually offering solutions to pressure measurement/control for any liquid in varied pressure range i.e. 1.0 micro psi to 10,000 psi. These pressure gauges are offered in material like SS-316 (ceramic/Teflon coating), polypropylene, derelin etc to make up with corrosion, thermodynamical and other pertinent physical properties of gauges of fluid/gas under measurement. On account of above, these gauges are first choice for medical diagnostic, agro, biomedical, petrochemical, automobile, organic/inorganic chemical, milk plant, sugar, textiles, beverages, water management/treatment, academic and defense.

Operating Principle: Fluids/gases passing through the -pressure gauges imparts pressure on diaphragm as result pinion of movement moves in proportional to pressure. In case of digital a piezo-crystal is mounted on diaphragm, which alters its frequency in proportional to applied pressure, which is converted to digital display. These pressure gauges have inherent facility of multi point linearization over ten steps. It May have two set point for alarm and may be interface with PC using RS-232.



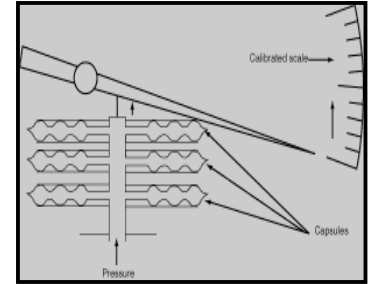
MAPG- 500



MAPG-050



MAPG-050



schematic of working principle

Electrical/Mechanical specification of Low Temp Tempreture

Pressure Gauges MAPG SERIES PRESSURE RANGE <10000.00 kg/cm²

Model	PRESSURE range kg/cm ²	Size (inch)	Accuracy Repeatability	Operating Temp °C	PRESSURE tube-Liner	O.D.P.	Leak rate	Output signal-volt
MAPG-0001L	001.000.0	1/2	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0002L	002.000.0	3/8	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0004L	0048.00.0	1.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0007L	0070.00.0	1.5	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0010L	0100.00.0	2.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0020L	020.0.00.0	3.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0050L	050.0.00.0	4.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0100L	100.0.00.0	6.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0200L	200.0.00.0	8.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0500L	500.0.00.0	10.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0800L	800.0.00.0	12.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-1000L	10000.00.0	14.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0

DIGITAL/ANALOGUE PRESSURE GAUGES CONTROLLER SPECIFICATION:

Operating voltage 220 volts/28 volts D.C.

Pressure range: 0 to 1, 1.6, 2, 2.5, 4, 6, 10, 16 25, 40, 60, 100, 160, 250, 400 & 600 kg/cm²

Excitation frequency 2.5/7.5/15.0/25.0 Hz

Response time: 10,000 sample/sec

Hydraulic Burden: less than 100 micro psi /full scale current

Accuracy: 0.5/1.0/2.0 % reading

Repeatability: 100 of reading

Resolution: 1/10 of least significant bit

Linearity adjustment: upto 100 nano volt

Input imedence: ultra low (<1000 micro-psi,

Operating Temperature: -50 to 600 degree cel in different ranges

Step down ratio 1:10000

Pressure tube/casing material SS-316

Filtering: low pass

Offset: variable upto 10,000 nano volts (manual/auto)

CMMR: >80 db at 50-60 Hz

Isolation: > 100 giga ohm

Connection size: 1/4, 1/2, 1.0, 1.5 inches

Interface Signal 0.0-12.0 volts D.C. (proportional to pressure)

Control option Pressure control against set point with multi

Pressure synchronized control (interactively) with predictive

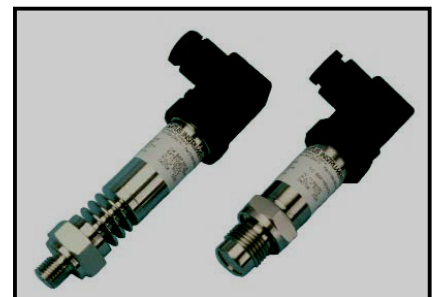
Control system/ dP, dp/dt, dP.t to ensure boiler safety.

Display 3 1/2 & 4 1/2 digit red glow LED/LCD display/analogue

Controller size 48x48x96, 72x72x96, 96x96x192

Protection: IP-65/67 /Interface: RS-232

Option: ADDITIONAL SOFTWARE to plot V/I OR ANY DESIRED INFERENTIAL PARAMETER



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DIGITAL/ANALOGUE TYPE PRESSURE GAUGES/CONTROLLERS

MAPG/MDPG-Series

Electrical/Mechanical specification of High Temp Tempreture

Pressure Gauges MAPG SERIES PRESSURE RANGE <10000.00 kg/cm²

Model	PRESSURE range kg/cm ²	Size (inch)	Accuracy Repeatability	Operating Temp °C	PRESSURE tube-Liner	O.D.P.	Leak rate	Output signal-volt
MAPG-0001H	001.000.0	½	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0002H	002.000.0	3/8	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0004H	0048.00.0	1.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0007H	0070.00.0	1.5	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0010H	0100.00.0	2.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0020H	020.0.00.0	3.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0050H	050.0.00.0	4.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0100H	100.0.00.0	6.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0200H	200.0.00.0	8.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0500H	500.0.00.0	10.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-0800H	800.0.00.0	12.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0
MAPG-1000H	10000.00.0	14.0	99.5 100	<100,250	Ceramic/PP	2000	<1.8x10	0.0-12.0

Electrical/Mechanical specification of Low Temp Tempreture

Pressure Gauges MAPG SERIES PRESSURE RANGE <10000.00 kg/cm²

Model	PRESSURE range kg/cm ²	Size (inch)	Accuracy Repeatability	Operating Temp °C	PRESSURE tube-Liner	O.D.P.	Leak rate	Output signal-volt
MDPG-0001L	001.000.0	½	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0002L	002.000.0	3/8	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0004L	0048.00.0	1.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0007L	0070.00.0	1.5	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0010L	0100.00.0	2.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0020L	020.0.00.0	3.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0050L	050.0.00.0	4.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0100L	100.0.00.0	6.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0200L	200.0.00.0	8.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0500L	500.0.00.0	10.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0800L	800.0.00.0	12.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-1000L	10000.00.0	14.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0

Electrical/Mechanical specification of High Temp Tempreture

Pressure Gauges MAPG SERIES PRESSURE RANGE <10000.00 kg/cm²

Model	PRESSURE range kg/cm ²	Size (inch)	Accuracy Repeatability	Operating Temp °C	PRESSURE tube-Liner	O.D.P.	Leak rate	Output signal
MDPG-0001H	001.000.0	½	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0002H	002.000.0	3/8	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
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MDPG-0050H	050.0.00.0	4.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-0100H	100.0.00.0	6.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
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MDPG-0800H	800.0.00.0	12.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0
MDPG-1000H	10000.00.0	14.0	99.5 100	<100-4000	Ceramic/PP	2000	<1.8x10	0.0-12.0



MDPG-0007H



MDPG-0010H



MDPG-0100L

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