

General Specifications

Model MC43 Pneumatic Indicating Controller

MC40 series

GS 02M04B01-00E

The Model MC43 Pneumatic Indicating Controller, designed for field mounting, satisfies industry's need for an economical, dependable means of automatically controlling on-line variables where no permanent record is required. Highly reliable, it measures and controls important process variables such as temperature, pressure and liquid level. A variety of measuring elements for specific process variables can be built into its housing along with the control mechanism, making the Model MC43 a low cost, compact, stand-alone instrument which can both indicate process variables and control them at desired setpoints. The controller's case is weatherproof and dustproof offering excellent durability, and the indicating pointer and the setting index are visible even from a distance. Thus the MC43 is highly suitable for mounting outdoors or in the field.

■ STANDARD SPECIFICATIONS

Measuring Range Limits:

Temperature: -25°C to 500°C (-13 to 932°F),
Gauge pressure: Full vacuum to 42 MPa (420 kgf/cm²),
Absolute pressure: 0 to 241 kPa (1800mmHg) absolute.

Measuring Elements:

Refer to page 3 and 4.

Output Signal:

With proportion: 20 to 100 kPa, 0.2 to 1.0 kgf/cm² or bar, or 3 to 15 psi, whichever specified,
On - off and differential gap: 0 kPa or air supply.

Output Gauge:

0 to 200 kPa, 0 to 2 kgf/cm² or bar, or 0 to 30 psi.

Air Supply:

140 kPa, 1.4 kgf/cm² or bar, or 20 psi, whichever specified.

Air Consumption:

0.5 m³/h at 0°C, 101.3 kPa (1.013 kgf/cm²) absolute (0.3 scfm).

Control Modes:

On-off, proportional (P), proportional plus derivative (P+D), proportional plus integral (P+I), proportional plus integral plus derivative (P+I+D), differential gap, batch plus proportional plus integral (BATCH+P+I),
Proportional band: 4 to 400%, direct or reverse,
Integral time: 0.01 to 50 minutes,
Derivative time: 0.05 to 50 minutes,
Differential gap: 2 to 100%.

Indicating and Setting Scale:

Effective nominal length 156 mm (6 inches). Black divisions and letters on white background.



Indicator Accuracy:

Temperature T1A, T3B elements: $\pm 0.5\%$ span or $\pm 0.5^\circ\text{C}$, whichever is greater,
Pressure P31, P311, P42, 51, 52 elements: $\pm 0.5\%$ span,
Pressure P32, 72 elements: $\pm 0.75\%$ span.

Printers:

Fluorescent red.

Set Point:

Local (manual) set, standard. Remote (pneumatic) set, optional. In local set version internal set point knob is accessible by opening hinged door.

Door and Case:

Aluminum alloy, finished with polyurethane paint,
Light grayish green (Munsell 2.5GY5.0/1.0).

Degree of Protection:

IP53, NEMA 3.

Operating Temperature Range:

-30 to +60°C (-20 to +140°F).

Mounting:

Surface, flush panel and 2-inch pipe.

Connections:

In bottom of case.

Air: Tapped for JIS R1/4 or 1/4 NPT male,
Pressure and vacuum: JIS Rc1/4 or 1/4 NPT female up to 140 kgf/cm² or bar, 13.7 MPa, 2000 psi, JIS R1/2 or 1/2 NPT male up to 420 kgf/cm² or bar, 42 MPa, 6000 psi.

Approximate Weight:

7.5 kg (17 lb)
... MC43-A5C-N* A (excluding elements and bracket).

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