

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 (1800 mmHg) 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).

Mc43 Pneumatic Controller Manual

James A. Sullivan



Mc43 Pneumatic Controller Manual:

Power and the Engineer, 1943 **Power**, 1943 Engineering, 1957 *Brown Rectangular Case Dual Or Interlocked Pneumatic Controller and Duplex Pneumatic Controller* Brown Instrument Company, 1947 Presents instructions on the installation of the Brown rectangular case air controller including sections on the Air O Line controller and Full Throttler controller for the measurement and control of pressure temperature flow or liquid level Also covers the operation of the Brown On Off controller Pneumatic Controls Manual for United Association Journeymen and Apprentices, 1997
Pneumatic Control Rack Assemblies. Part No. 1541590 and 1503255. Operation and Service Manual LOCKHEED MISSILES AND SPACE CO INC SUNNYVALE CA., 1963 Pneumatic Controls for Industrial Application American Society of Tool and Manufacturing Engineers, 1965 **Electrical Control of Pneumatic Systems**, 1998 *Optimum Settings on a Pneumatic Controller* Roger Emil Hudrlik, 1954 **Electrical Control of Pneumatic Systems. Student's Manual** Lab-Volt (Québec) Ltd, 1998 **Pneumatic Theory**, 1976 **Johnson Controls Training Manual** Johnson Controls, Inc, 198? Manual of Pneumatic Systems Optimization Henry Fleischer, 1995 A reference for students and engineers in industry or manufacturing providing a practical approach to the design selection sizing and application of components for the entire pneumatic system It presents information on the development of pneumatic systems as well as coverage of actuators fittings conductors valves accumulators and receivers and air motors and flow controls It includes a wide range of illustrative examples plus answers to commonly asked questions about pneumatic systems Also included is a checklist of essential criteria to review when designing a pneumatic circuit Annotation copyright by Book News Inc Portland OR **Dynamic Analysis of a Pneumatic Controller** William G. Tracy, 1972 Pneumatic Controls for Industrial Application Kenneth Gangemi, Peter Petersen, Remigio E. Agpalo, William John McDougall, 1969 **A Mathematical Analysis of a Three Capacity Pneumatic Controller System** Robert Floyd Brown, 1953 **Industrial Pneumatic Control** Lansky, 1986-03-11 This book provides detail on pneumatic directional control valve and regulator and pneumatic circuitry It emphasizes on component construction and function as well as the installation maintenance and troubleshooting of malfunctioning components It is useful to plant and design engineers *Candidate's Self-study Manual for Pneumatic Technician Certification* James A. Sullivan, 1993 **Pneumatic Control**, 1979 **Pneumatic Control** Werner Deppert, Kurt Stoll, 1975

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