



Displacement/Pressure Transmitter

- Vibration resistant and can operate in any mounting attitude
- Dustproof and splashproof
- Adjustable feedback restriction
- All ports on one side
- Pressure gauges fitted to supply and output signals

Technical Data

Medium:

Compressed air

Installation:

Air supply must incorporate a pre-filter and a high efficiency $(5\mu m)$ filter. The supply should not be lubricated.

Operation:

Displacement/Pressure Transmitter, force balance design

Operating Pressure:

2 - 10 bar

Signal Pressure:

0,2 - 1,03 bar

Operating Temperature: +5°C* to +80°C

*100% dry air

Angular Movement:

0° - 15° to 0° - 60°

Sensitiveness:

Less than 1,5% of input angle range

Linearity:

Less than 1% full output signal range

Hysteresis:

Less than 2,5% full output signal range

Flow:

Equivalent to Cv 0,06 when feedback restriction is fully open

Steady state Air Consumption:

Less than 0,5 dm³/s at 6 bar supply

Band Adjustment:

15° - 60°

Input Torque Required: 0,112 Nm

Materials

Aluminium alloy main base, cover, valve body and control bellows housing, stainless steel valve spool and feedback cam, brass valve bush, 80/20 brass or phosphor bronze bellows, pressed steel balance lever and feedback levers, polycarbonate gauge windows to BS 6005 (1981), silicone rubber seal.

Ordering Information

To order a Displacement/Pressure Transmitter quote: *M*/1843.



Signal Pressure Range 0,2 - 1,3 bar





Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. For your local Norgren Technical Sales Centre phone 0345 662266. For your local Norgren Distributor phone 0345 227777. IMI Norgren Limited, PO Box 22, Eastern Avenue, Lichfield, Statfordshire WS13 65B



Basic Displacement/Pressure Transmitter Dimensions



Note: Lever assembly can be clamped in any position about 360° to suit requirements. The trunnion block can be set on lever in position required.

The M/1843 Displacement/Pressure Transmitter has been developed from the M/1842 Universal Positioner and has been designed to provide an output signal pressure change proportional to an input in the form of an angular movement. It is ideally suited to the control of fluid levels, edge guiding systems, etc.

It differs from the M/1842 Positioner in that the internal cam of the M/1842 has been replaced by one of a constant rise profile on the M/1843. The M/1843 is provided with an operating arm attached to the internal cam shaft and the proportional band calibration of the M/1842 has been replaced with one calibrated in degrees.

The feedback restriction is adjustable to enable a stable response to be achieved over all load conditions.

M/1843



Weights of Displacement/Pressure Transmitter (kg)

Model	Weight
M/1843	3,87

Spares

Model	Spares kit
M/1843	QM/1843/00

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN. Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the system of system. the event of such failure

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.