



DMD is a differential pressure transmitter with display, for measuring overpressure, underpressure and differential pressure in neutral gases. The main application is for pressure control in air handling systems

- * Selectable measuring range 0...100, 0...300, 0...500, 0...1000 Pa
- * Output 0...10 V and 4...20 mA
- * LED display
- * Damping of measuring signal is adjustable
- * Zero-point adjustment
- * LON-version available

Function

The differential pressure transmitter DMD is based on microprocessor technology and it has a logical menu system.

Settings of working range, damping, and zero-point adjustment are made using buttons under the lid.

Measuring technique

Pressure measurements are obtained by means of a sensor that uses a ceramic measuring beam. The differential pressure affects a membrane that works directly against the measuring beam. The thick-film resistor is mounted on the bending area of the measuring beam. When the measuring beam bends the resistance value changes and will then be converted to a proportional output signal via built-in electronics.

The small number of moving parts in the transmitter, permits a high degree of accuracy and short response time. Another important quality is that the ceramic element has a very good long-time stability.

Adjustable working range

DMD can easily be set between the working ranges 0...100, 0...300, 0...500, 0...1000 Pa.

Electronical damping

The pressure transmitters have electronical damping to counteract rapid fluctuations in the output signal, this function is adjustable 0...20 s.

Zero-point adjustment

The output can easily be zero-point adjusted, see overleaf.

DMD is supplied complete with connection set containing two pressure outlets and 2 m hose.

Technical data

Supply voltage	24 V AC/DC +/-10% 50-60 Hz
Power consumption	5 VA
Ambient temperature	0...50°C
Ambient humidity	Max 90%RH
Medium temperature	0...70°C
Storage temperature	-40...+50°C
Maximum overload	20 kPa
Accuracy	+/- 1 % at 20°C
Temperature dependence	+/- 0,05% /°C
Protection class	IP54



This product conforms with the requirements of European EMC standards CENELEC EN 50081-1 and EN 50082-1 and carries the CE mark

Outputs

Output	0...10 V and 4...20 mA, corresponding to selected setpoint
Load resistance	> 2 Kohm (0...10 V), < 500 ohm (4...20 mA)

Settings

Measuring range	0...100 / 0...300 / 0...500 / 0...999 Pa, selectable
Zero-point adjustment	By means of buttons under the lid
Electronic damping	0...20 s, adjustable under the lid

Connection

Electric connections	Screw block terminals. Flexible cable is recommended.
Pressure	Hose nippel. For 6 mm hose

Indication

Display	LED, three digits
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Settings in the menu system

All settings are made using any of three buttons. Two buttons (Up, Down) are used to scroll upwards and downwards between the possible settings. The third button (Enter) is used to select the alternative which currently appears on the display. If the buttons are left unattended for a period of 10 seconds the menu automatically returns to the running mode.

Settings

Press Enter. The display shows -01.
Press the Up button until the display shows the required menu. Press Enter and the display shows the current reading.
The display alternates between the reading and the menu number.

To obtain another reading press the Up or Down buttons until the required reading appears. Press Enter again to confirm the setting which is then stored in the memory. After that the display automatically returns to normal mode and shows the current pressure.

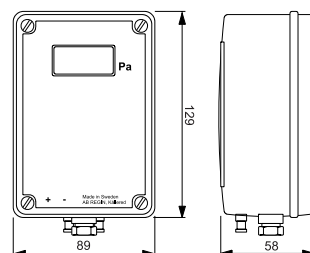
Should you, after all, not wish to change a reading the menu system automatically returns to running mode if the buttons are left unattended for 10 seconds.

Menus

Working range	-01	0..100 / 300 / 500 / 999 Pa
Damping	-03	0...20 s
Zeropoint adj.	-08	Press on Enter obtains zero output

Dimensions and wiring

1	24 V AC/DC
2	24 V AC/DC system neutral
3	Signal neutral
4	Output 0...10 V DC
5	Output 4...20 mA
6	Not in use
7	Not in use
8	Not in use
9	Not in use



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THE CHALLENGER IN BUILDING AUTOMATION



DMD-Lon is a differential pressure transmitter with LonWorks and display, for measuring overpressure, underpressure and differential pressure in neutral gases.

- * Selectable measuring range 0...100, 0...300, 0...500, 0...1000 Pa
- * Output 0...10 V and 4...20 mA
- * LED display
- * Damping of measuring signal is adjustable
- * Zero-point adjustment

Function

The differential pressure transmitter DMD-Lon is based on microprocessor technology and has a logical menu system. Settings of working range, damping, and zero-point adjustment are made using buttons under the lid.

Measuring technique

Pressure measurements are obtained by means of a sensor that uses a ceramic measuring beam. The differential pressure affects a membrane that works directly against the measuring beam. The thick-film resistor is mounted on the bending area of the measuring beam. When the measuring beam bends the resistance value changes and will then be converted to a proportional output signal via built-in electronics.

The small number of moving parts in the transmitter, permits a high degree of accuracy and short response time. Another important quality is that the ceramic element has a very good long-time stability.

Communication

The transmitter is intended for connection to LonWorks-networks. DMD-Lon has network variables according to LonMark guidelines (see list overleaf).

Adjustable working range

DMD-Lon can easily be set between the working ranges 0...100, 0...300, 0...500, 0...1000 Pa.

Electronical damping

The pressure transmitters have electronic damping to counteract rapid fluctuations in the output signal, this function is adjustable 0...20 s.

Zero-point adjustment

The output can easily be zero-point adjusted, see overleaf.

DMD-Lon is supplied complete with connection set containing two pressure outlets and 2 m of hose.

Technical data

Supply voltage	24 V AC/DC +/-10% 50-60 Hz
Power consumption	5 VA
Ambient temperature	0...50°C
Ambient humidity	Max 90%RH
Medium temperature	0...70°C
Storage temperature	-40...+50°C
Maximum overload	20 kPa
Accuracy	+/- 1 % at 20°C
Temperature dependence	+/- 0,05% /°C
Protection class	IP54
Dimensions	89x129x58 (w*h*d)
CE	This product conforms with the requirements of European EMC standards CENELEC EN 50081-1 and EN 50082-1 and carries the CE mark

Communication

Communication protocol LonWorks according to SNVT standard (see SNVT-list below).

Outputs

Output 0...10 V and 4...20 mA, corresponding to selected setpoint
Load resistance > 2 Kohm (0...10 V), < 500 ohm (4...20 mA)

Settings

Measuring range 0...100 / 0...300 / 0...500 / 0...999 Pa, selectable
Zero-point adjustment By means of buttons under the lid
Electronic damping 0...20 s, adjustable under the lid

Connection

Electric connections Screw block terminals. Flexible cable is recommended.
Pressure Hose nipple. For 6 mm hose

Indication

Display LED, three digits

Settings in the menu system

All settings are made using any of three buttons. Two buttons (Up, Down) are used to scroll upwards and downwards between the possible settings. The third button (Enter) is used to select the alternative which currently appears on the display. If the buttons are left unattended for a period of 10 seconds the menu automatically returns to the running mode.

Settings

Press Enter. The display shows -01.
Press the Up button until the display shows the required menu. Press Enter and the display shows the current reading.
The display alternates between the reading and the menu number.

To obtain another reading press the Up or Down buttons until the required reading appears. Press Enter again to confirm the setting which is then stored in the memory. After that the display automatically returns to normal mode and shows the current pressure.

Should you, after all, not wish to change a reading the menu system automatically returns to running mode if the buttons are left unattended for 10 seconds.

Menus

Working range - 01 0..100 / 300 / 500 / 999 Pa
Damping - 03 0...20 s
Zeropoint adj. - 08 Press on Enter obtains zero output

Dimensions and SNVT-list

1	24 V AC/DC
2	24 V AC/DC system neutral
3	Signal neutral
4	Output 0...10 V DC
5	Output 4...20 mA
6	Not in use
7	Net A
8	Net B
9	Ground \perp

SNVT-list

NvoPress	NvoDamping (typ int)
NvoPrecisePress	(Damping factor 0...20 = 0...20)
NvoFloatPress	NvoStatus
NvoRange (typ int)	NviRequest
Measuring ranges:	MaxSendTime
0 =0...100 Pa, 1=0...300 Pa,	MinSendTime
2 =0...500 Pa, 3=0...1000 Pa	SendOnDelta

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