

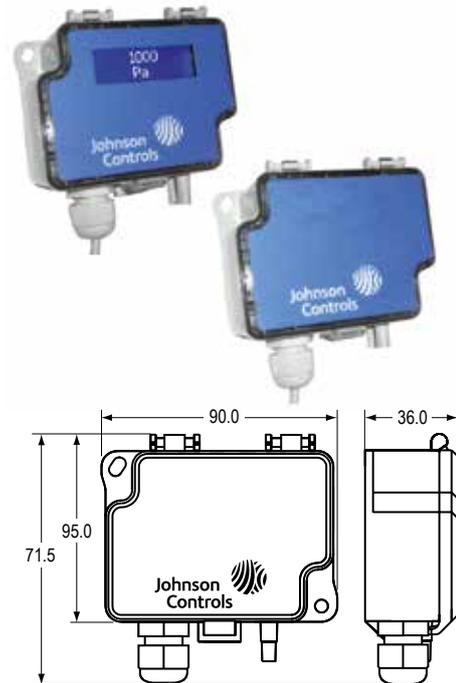
Differential pressure

DP7000 - DP2500 - DP0250

The DP low differential pressure transmitter series is an accurate and cost competitive solution for measuring low pressures of air and non-aggressive gases in order to monitor and control pressures in building automation, HVAC and clean room systems.

Features

- ▶ Power supply 24 VAC/VDC
- ▶ Pressure range: 8 different ranges in one device (see the table)
- ▶ Output signal: 0...10 VDC or 4...20 mA
- ▶ Automatically autozero point adjusting
- ▶ Response time selectable
- ▶ 2 rows x 12 characters digit display
- ▶ Back-light display
- ▶ Protection class: IP54
- ▶ Configurable measuring unit (Pa, kPa, mbar, inch WC, mm WC, psi)
- ▶ Factory Calibration Certificate available on request



Dimensions in mm

Ordering information

Ordering Codes	Packaging	Operating range (Pa)	Auto zero	Display	Output signal	Enclosure	Supply voltage	Span point adjustment
DP7000-R8	Single	0...1000	---	---	0...10 VDC or 4...20 mA	IP54	24 VAC / VDC	---
DP7000-R8-01	Bulk	0...1500	---	---				
DP7000-R8-AZ	Single	0...2000	•	---				
DP7000-R8-AZ-01	Bulk	0...2500	•	---				
DP7000-R8-AZ-01	Bulk	0...3000	•	---				
DP7000-R8-AZ-01	Bulk	0...4000	•	---				
DP7000-R8-D	Single	0...5000	---	•				
DP7000-R8-AZ-D	Single	0...7000	•	•				
DP2500-R8	Single	-100...+100	---	---				
DP2500-R8-01	Bulk	0...100	---	---				
DP2500-R8-01	Bulk	0...250	---	---				
DP2500-R8-AZ	Single	0...500	•	---				
DP2500-R8-AZ-01	Bulk	0...1000	•	---				
DP2500-R8-AZ-01	Bulk	0...1500	•	---				
DP2500-R8-D	Single	0...2000	---	•				
DP2500-R8-AZ-D	Single	0...2500	•	•				
DP0250-R8-AZ	Single	0...25	---	---				
DP0250-R8-AZ-01	Bulk	0...50	---	---				
DP0250-R8-AZ-01	Bulk	0...100	•	---				
DP0250-R8-AZ-01	Bulk	0...250	•	•				
DP0250-R8-AZ-D	Single	-25...+25	•	•				
DP0250-R8-AZS	Single	-50...+50	---	---				
DP0250-R8-AZS	Single	-100...+100	---	---				
DP0250-R8-AZ-DS	Single	-150...+150	•	•				

Accessory kit

Code	Description
T00199	DP Transmitter accessory kit, 2 fixing screws, 2 plastic tube connectors and 2 m tube Ø 4/7 mm

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Factory calibration certificates

On request, the DP7000, DP2500 and DP0250 transmitter can be provided with the Factory calibration certificate for a specific pressure range setting.

The certificate will report:

- Date and validity
- Device type and calibration range
- Device ID
- Test report on 3 measurement points

The calibration test performed in the factory ensures the accuracy of the pressure readings measured by the sensor. A calibration certificate is provided with any error measured in the test declared. This error value can be used when configuring the analog input channel for the sensor. Select the error at the nearest value the pressure sensors is expected to be typically measuring, this should normally be mid-range, and use this as the offset when setting up the analog input channel. This will ensure the sensor provides the greatest accuracy possible at the normal operating condition.



How to order a DP with Calibration certificate

The calibration certificate performed in the factory can be provided for a specific pressure range only. To determine the ordering code please select the Certificate required from the table below. Take into consideration that pressure range changes from one model to another.

		DP7000	DP2500	DP0250
DPxxxx-	C1	0...1000 Pa	-100...+100 Pa	0...25 Pa
	C2	0...1500 Pa	0...100 Pa	0...50 Pa
	C3	0...2000 Pa	0...250 Pa	0...100 Pa
	C4	0...2500 Pa	0...500 Pa	0...250 Pa
	C5	0...3000 Pa	0...1000 Pa	-25...+25 Pa
	C6	0...4000 Pa	0...1500 Pa	-50...+50 Pa
	C7	0...5000 Pa	0...2000 Pa	-100...+100 Pa
	C8	0...7000 Pa	0...2500 Pa	-150...+150 Pa

For Display or Autozero options then add:

- **D** Display
- **AZ** Autozero Option
- **AZ-D** Autozero and Display

Note

- i.e. **DP0250-C3-AZ** DP0250 with autozero with Calibration certified for 0...100 Pa range setting
- DP2500-C3-AZ-D** DP2500 with autozero and Display with Calibration certified for 0...250 Pa range setting
- DP7000-C3** DP7000 Calibration certified for 0...2000 Pa range setting