


**FIO**Net™

# Pilot series 200/MP/FO

The **pilot series 200/MP/FO** is an electro-mechanical device which enables remote setpoint modifications of pilot operated gas pressure regulators. Furthermore, the pilot optimizes the accuracy and lock-up performances thanks to real-time pulse width modulation control. It is suitable with Reflux 819/FO and ASX 176/FO regulators and, upon request, it can be used with any brand with the same working principle.



Gas compression /  
booster stations



City gates



Gas reverse-flow



Gas storage



Power generation



District stations

Features	Values			
Design pressure* (PS <sup>1</sup> / DP <sup>2</sup> )	up to 10.2 MPa up to 102 barg			
Ambient temperature* (TS <sup>1</sup> )	from -20 °C to +60 °C from -4 °F to +140 °F			
Inlet gas temperature*	from -20 °C to +60 °C from -4 °F to +140 °F			
Inlet pressure (MAOP / p <sub>umax</sub> <sup>1</sup> )	from 0.02 to 10 MPa from 0.2 to 100 barg (Depending on the model)			
Range of downstream pressure (Wd <sup>1</sup> )	from 0.7 kPa to 6.0 MPa from 7 mbarg to 60 barg (Depending on the model)			
Maximum power consumption	30 W			
PWM input signal	0 – 10 V or 4-20 mA upon request			
ATEX Certification	CE Ex II 2/- G Ex h IIC T5 Gb			
IECEX Certification	(in progress)			
Models	204/MP/FO + prereducer (R31)	204/MPH/FO + prereducer (R31)	205/MP/FO + prereducer (R31)	205/MPH/FO + prereducer (R31)
Minimum set-point P <sub>ds min</sub>	0.1 MPa 1 barg	0.1 MPa 1 barg	2 MPa 20 barg	2 MPa 20 barg
Maximum set-point P <sub>ds max</sub>	3.3 MPa 33 barg	3.3 MPa 33 barg	6 MPa 60 barg	6 MPa 60 barg
Maximum setpoint variation ΔP With failover to maximum setpoint (decrease version)	0.12 MPa 1.2 barg	0.4 MPa 4 barg	0.12 MPa 1.2 barg	0.4 MPa 4 barg
Maximum setpoint variation ΔP With failover to minimum setpoint (increase version)	90 kPa 900 mbarg	0.28 MPa 2.8 barg	90 kPa 900 mbarg	0.28 MPa 2.8 barg
Accuracy class (AC <sup>1</sup> )	up to 1 (depending on working conditions)			
Lock-up pressure class (SG <sup>1</sup> )	up to 1 (depending on working conditions)			
Pneumatic connections*	1/4" RP - UNI EN ISO 226 1/4" NPT - ANSI B 1.20.1			

(<sup>1</sup>) according to EN334 standard

(<sup>2</sup>) according to ISO 23555-1 standard

(\*) NOTE: Different functional features and/or extended temperature ranges may be available on request. Stated inlet gas temperature range is the maximum for which the equipment's full performance, including accuracy is guaranteed. Product may have a different pressure or temperature ranges according to the version and/or installed accessories.

**Table 1** Features

## Materials and Approvals

Part	Material
Body	Aluminium
Cover	Aluminium
Plug	NBR
Seat	Stainless Steel
Diaphragms	Nitrile rubber
Sealing rings	NBR

**NOTE:** The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.

**Table 2** Materials

The **Pilot 200/MP/FO** is designed according to the EN334 where applicable. The device meets the requirements of Directive 2014/34/EU (ATEX). Directive 2014/68/EU (PED) is not applicable due to Article 4 paragraph 3 of the Directive.



EN 334



ATEX



IECEX

## Pilot 200/MP/FO competitive advantages



Compact and simple design



Remote set-point variation



High accuracy



Failover to max or min mechanical set-point



Multi brand compatibility\*  
\*To be verified on a case-by-case basis



Easy maintenance



Pulse Width Modulation (PWM) control



No vent