

■ FIONet [™] Pilot series 300/MP

The **pilot series 300/MP** 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 Aperval and Aperflux 851 regulators and, upon request, it can be used with any brand with the same working principle.



	Gas compression / pooster stations		City gates		Gas r	everse-flow
	Gas storage	₽	Power generati	on	Distrie	ct stations
Features		Values				
Design pressure* (PS ¹ / DP ²)		up to 10.2 MPa up to 1479 psig				
Ambient temperature* (TS1)		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 _{umax} 1)		from 0.05 to 10 MPa from 7.25 to 1450 psig (Depending on the model)				
Range of downstream pressure (Wd ¹)		from 0.5 kPa to 4.3 MPa from 2" w.c. to 623 psig (Depending on the model)				
Maximum power consumption		30 W				
PWM input signal		0 – 10 V or 4-20 mA upon request				
ATEX Certification		CE 🐼 II 2/- G Ex h IIC T5 Gb				
IECEX Certification		(in progress)				
Models		301/MP + Prereduce (AR100)	er 301/MP/TR + Prereducer (AR100)	302/MP + Prereducer (AR100)	304/MP + Prereducer (AR100)	304/MPH + Prereducer (AR100)
Minimum set-point P _{ds min}		0.5 kPa 2" w.c.	10 kPa 1.45 psig	80 kPa 11.6 psig	0.7 MPa 101 psig	0.7 MPa 101 psig
Maximum set-point $P_{ds max}$		10 kPa 1.45 psig	0.2 MPa 29 psig	0.95 MPa 137 psig	4.3 MPa 623 psig	4.3 MPa 623 psig
Maximum setpoint variation ΔP With failover to maximum setpoint		Up to 16 kF Up to 2.3 psi		Up to 47 kPa Up to 6.8 psig	Up to 0.12 MPa Up to 17 psig	Up to 0.6 MPa Up to 87 psig
Maximum se With failover to mi	etpoint variation ΔP nimum setpoint	Up to 16 kF Up to 2.3 psię		Up to 36 kPa Up to 5.2 psig	Up to 90 kPa Up to 13 psig	Up to 0.43 MPa Up to 62.3 psig
Accuracy class (AC ¹)		up to 1 (depending on working conditions)				
Lock-up pressure class (SG ¹)		up to 1 (depending on working conditions)				
Pneumatic connections*		1/4" RP - UNI EN ISO 226 1/4" NPT - ANSI B 1.20.1				

(¹) according to EN334 standard
(²) 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	Aluminum			
Cover	Aluminum			
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 series 300/MP** 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.



Pilot series 300/MP 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

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