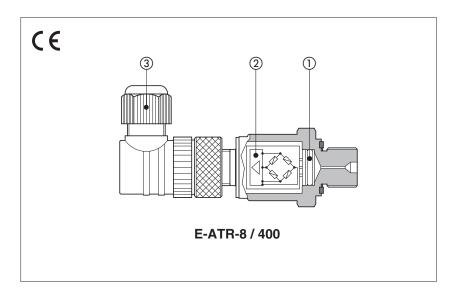
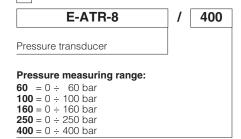


Pressure transducers type E-ATR-8

analog, for open and closed loop systems



1 MODEL CODE





Options:

- = voltage output signal 0 ÷ 10 V I = current output signal 4 ÷ 20 mA

E-ATR-8

This pressure transducers measure the static and dynamic pressure of the hydraulic fluid, supplying a voltage or current output signal.

The sensor is composed by a thin-film circuit ①, with high resistance to overloads and pressure peaks.

The integrated electronic circuit ② supplies an amplified voltage or current output signal, proportional to the hydraulic pressure, with thermal drift compensation.

E-ATR-8 equip pressure control digital proportional valves with integral transducer and electronics, REB/RES execution.

They are also used in association with other Atos digital proportionals to perform closed loop pressure controls:

- variable displacement axial piston pumps, PE(R)S execution (see tech table AS170)
- directional control valves with additional closed loop pressure control, SP and SF options on TES/LES execution (see tech table FS500)

Features:

- Factory preset and calibrated
- Standard 5 pin M12 main connector ③
- IP67 protection degree
- CE mark according to EMC directive

2 MAIN CHARACTERISTICS

0 ÷ 60/100/160/250/400 bar; other values availables on request Note: negative pressure can damage the pressure transducer
2 x FS without exceeding 600 bar
5 x FS without exceeding 1700 bar
≤ 2 ms
Operating -40 ÷ +100 °C; Storage -40 ÷ +100 °C; Fluid: -40 ÷ +100 °C
@ zero: ≤ ±0,025 % FS/°C max; @ FS: ≤ ±0,025 % FS/°C max
≤ ±1,2 % FS
≤ ±0,5 % of FS (BFSL) as per IEC 61298-2
Hydraulic oil as per DIN51524535; for water-glycol, phosphate ester and skydrol®, please contact Atos technical department
24 Vpc nominal; 14 ÷ 30 Vpc for standard (8 ÷ 30 Vpc for /I option); Imax 25 mA
Standard: voltage output signal 0 ÷ 10 V (3 pins); Min load > maximum output signal / 1 mA // option: current output signal 4 ÷ 20 mA (2 pins); Max load ≤ (power supply - 8 V) / 0,02 mA
Against reverse polarity on power supply and short-circuit on output signal
Wetted parts: stainless steel 316L (13-8 PH for sensor); seals: FPM/FKM
Approx. 57 g
According to Directive 2014/30/UE EN 61326 emission (group 1, class B) and immunity (industrial application)
1x10 ⁶ load cycles
> 100 years
RoHs Directive 2011/65/EU as last update by 2015/863/EU REACH Regulation (EC) n°1907/2006
20 g according to DIN EN 60068-2-6 from 20 to 2000 Hz
40 g / 6 ms / half-sinusoid, according to DIN EN 60068-2-27
IP67 with mating connector
1/4" GAS - DIN 3852 (pressure port orifice Ø 0,6 mm)
Type: plastic 5 pins M12 at 90° (DIN 43650-C) with cable gland type PG7 for cable max Ø 6 mm Protection: IP67 according to EN 60529; Insulation: according to VDE 0110-C

Notes: FS = Full Scale; BFSL = Best Fit Straight Line

3 INSTALLATION AND COMMISSIONING

3.1 Warning

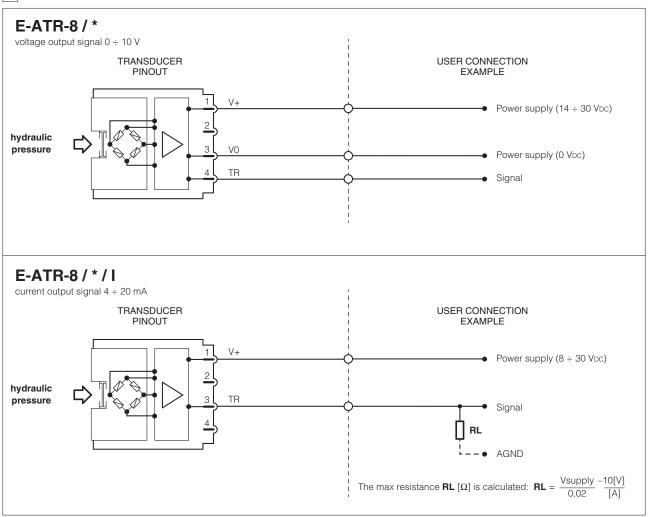
E-ATR-8 transducers have to be installed as near as possible to the point where the pressure have to be measured, taking care that the oil flow is not turbulent.

3.2 Commissioning

Install the transducer in the hydraulic circuit.

Switch-off the power supply before connecting and disconnecting the transducer connector as shown in scheme 4.

4 ELECTRONIC CONNECTIONS



5 OVERALL DIMENSIONS [mm]

