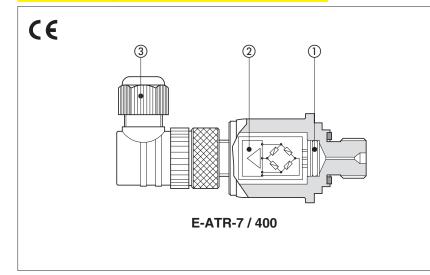
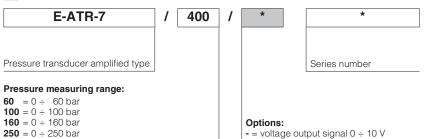


Pressure transducers type E-ATR-7

analog, for open and closed loop systems obsolete components - availability on request



1 MODEL CODE



250 = 0 ÷ 250 bar 400 = 0 ÷ 400 bar

MAIN CHARACTERISTICS 2

0 ÷ 60/100/160/250/400 bar; other values availables on request Pressure measuring range Note: negative pressure can damage the pressure transducer Overload pressure 2 x full-scale Burst pressure 5 x full-scale Response time < 2 ms -25 ÷ +85 °C (storage -40 ÷ +100 °C) Operating temperature Thermal compensation zero: ≤ ±0,025 % FS/°C max; span: ≤ ±0,025 % FS/°C max Accuracy < +1 2 % ES Linearity and hysteresis range at 25°C < ±0,25 % FS Materials Wetted parts: stainless steel and FPM; seals: viton Hydraulic oil as per DIN51524...535; Fluid Compatibility for water-glycol, phosphate ester and skydrol®, please contact Atos technical department Mass Approx. 55 a Electronic supply 24 Vbc nominal; 12 ÷ 30 Vbc for standard (8 ÷ 30 Vbc for /I option) Standard: voltage output signal 0 \div 10 V (3 pins); load minimum 2 k Ω /l option: current output signal 4 \div 20 mA (2 pins); current limitation: 32 mA Output signal Wiring protections Against reverse polarity on power supply and short-circuit on output signal According to Directive 2004/108/CE (Immunity: EN 61000-6-2; Emission: EN 61000-6-3) Electromagnetic compatibility (EMC) 25 g according to DIN EN 60068-2-6 from 5 to 2000 Hz Vibration resistance Shock resistance 500 g / 1 ms / half-sinusoid according to DIN EN 60068-2-27 IP67 Protection class Hydraulic connection 1/4" GAS - DIN 3852 plastic 4 pins M12 at 90° (DIN 43650-C) with cable gland type PG7 for cable max \emptyset 6 mm Type Connection Protection: IP67 according to DIN 40050; Insulation: according to VDE 0110-C

I = current output signal 4 ÷ 20 mA

E-ATR-7 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-7 equip pressure control digital proportional valves with integral transducer and electronics, TERS execution (see tech table G205)

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 A170)
- pressure control valves with remote pressure transducer, AERS execution (see tech table G205)
- directional control valves with additional closed loop pressure control, SP and SF options on TES/LES execution (see tech table GS212)

Features:

- Factory preset and calibrated
 - Standard 4 pin M12 main connector ③
 - IP67 protection degree
 - CE mark according to EMC directive

3 INSTALLATION AND COMMISSIONING

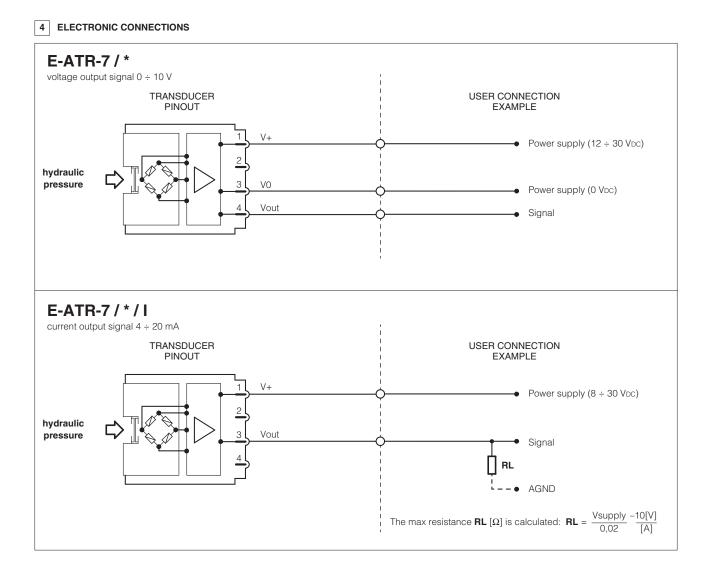
3.1 Warning

E-ATR-7 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.



5 OVERALL DIMENSIONS [mm]

