Metallux ME75x and MEP75x are monolithic pressure sensors made with ceramic cell and work following the piezoresistive principle. The Wheatstone bridge is screen printed directly on one side of the ceramic diaphragm by means of Thick Film technology and signal conditioning electronics are added to generate 0.5...4.5 V ratiometric output (ME750), current loop 4...20 mA (ME751) or 0...10 V non ratiometric output (ME752). Also available in customized version l°C output.

Pressure and temperature calibration are done electronically with the on-board ASIC and can be performed in bar (ME75x) or in psi (MEP75x). Electronics provide offset and span correction when temperature changes. Aging detection and compensation are constantly performed. This new method guarantees good precision and long-term stability.

The Metallux ME75x family meets EMI requirements. The ASIC stores production lot specific data for sensor traceability and allows custom calibration.

Due to the excellent chemical immunity of the the Al₂O₃ ceramic, the ME75x sensors are suitable for nearly all aggressive media.