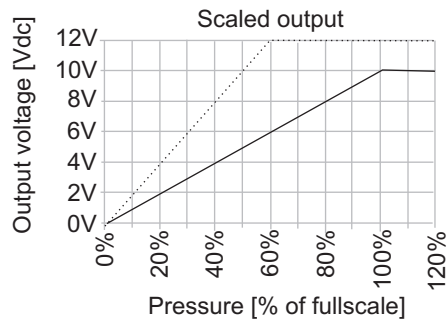
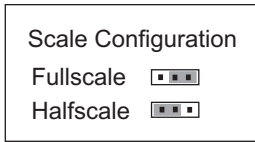
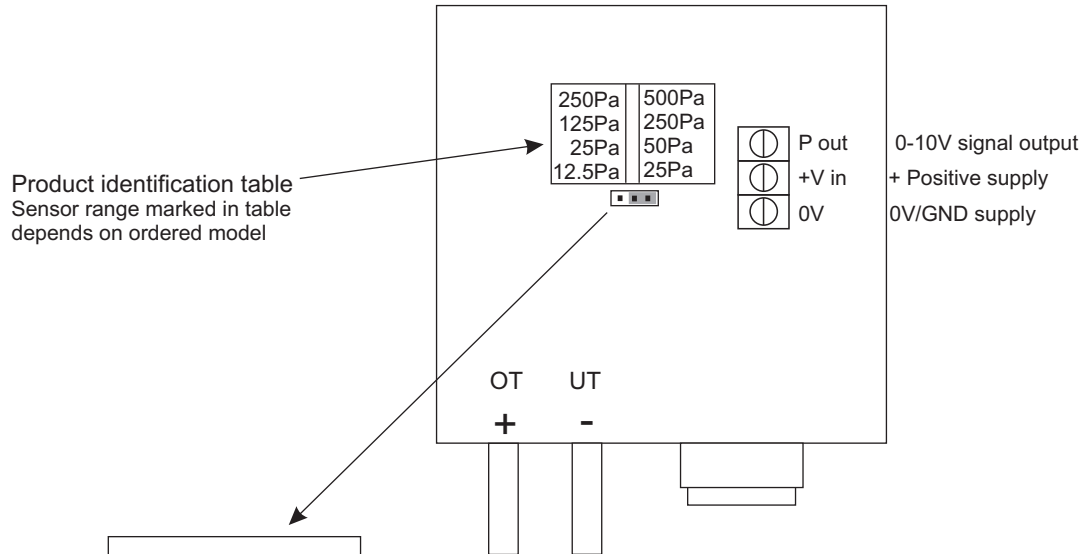


# Pressure Transducer ES 961 Pressure transducer with 0-10VDC output

## Electrical connection:



## Pressure transducer precision data:

	5 - 55 °C	0 - 60 °C
25Pa	±(2.5% of reading + 2.5% Fullscale)*	±(4.6% of reading + 2.5% Fullscale)*
50Pa		
250Pa	±(1.8% of reading + 1.8% Fullscale)*	±(3.9% of reading + 1.8% Fullscale)*
500Pa		

\*Total combining error from offset and span calibration, linearity, pressure hysteresis and temperature effects at 101,3kPa and supply 24V DC. Based on maximum for sensor.

## Specifications:

Supply voltage:	15VDC to 30VDC or 24VAC (±15%)
Power consumption:	15mA - 25mA at DC or 50mA - 70mA at AC
Enclosure:	IP54
Dimensions (HxWxD):	80 x 80 x 55 mm
Pressure terminals:	Ø 4mm
Weight:	200 g
Humidity:	0-97%RH, non condensing
Working temp. range:	-20°C to +60°C, non condensing
Storage temperature:	-30°C to +60°C, non condensing
Pressure ranges:	25Pa (12,5Pa). Order no. 40744 50Pa (25Pa). Order no. 40743 250Pa (125Pa). Order no. 40742 500Pa (250Pa). Order no. 40741 Other ranges available on request
Max absolute pressure:	200 kPa
Sensor precision:	See precision table on this page.
Output, voltage:	0-10Vdc (10mA) (up to 12V at overpressure)
Output, impedance:	10 Ohm

Tested according to the following harmonized standards:

EN61000-6-1

EN61000-6-2

EN60730-1

RoHS Compliant

## Functional description:

Pressure transducer with 0-10VDC output voltage signal based on micro-flow measurement. The transducer is available in other ranges on request.

## Adjustment:

The product features a half-/fullscale selector. Use jumper to change between halfscale and fullscale.

In halfscale mode, output is 10V at 50% of fullscale value.

Example: 500 Pa pressure transducer in halfscale mode, outputs 0V at 0 Pa and 10V at 250 Pa.

In halfscale mode the output can rise to 12V if sensor is exposed to higher pressure than maximum.

## Mounting:

Vertical mounting on solid base with terminals downwards. The Pressure transducer is for use at 0 m altitude pressure (101,3 kPa).

Only expose non-condensing and non-aggressive air.

Ask for calibration factor at other pressures.



Drawing: 950-205263\_PRESSURETRANSDUCER\_ES961\_EN

Rev.: 1.1

Date: 04/11-2014

Drawn by: PN / KM

Manufacturer: LS Control A/S

**LSCONTROL**