

## General information

PWS14620260619

The E 90/1 ATEX weighing instrument (stainless steel) is designed for installation in potentially explosive environments and is suitable for use in the many applications required by most of the chemical, pharmaceutical and paint industries. The complete digital programming of the instrument takes place directly from the front through 4 keys. The E 90/1 instrument has the peak hold function for dynamic weighings and it can be interfaced with the most common PLCs thanks to the Profibus-DP board which can be installed as an option directly in the instrument. The weighing instrument is compliant with the following regulations: EN50081-1, EN5002-2 for EMC; EN61010-1 for Electrical Safety; 94/9/EC for ATEX II 2 GD; EEx d IIB T6÷T4.



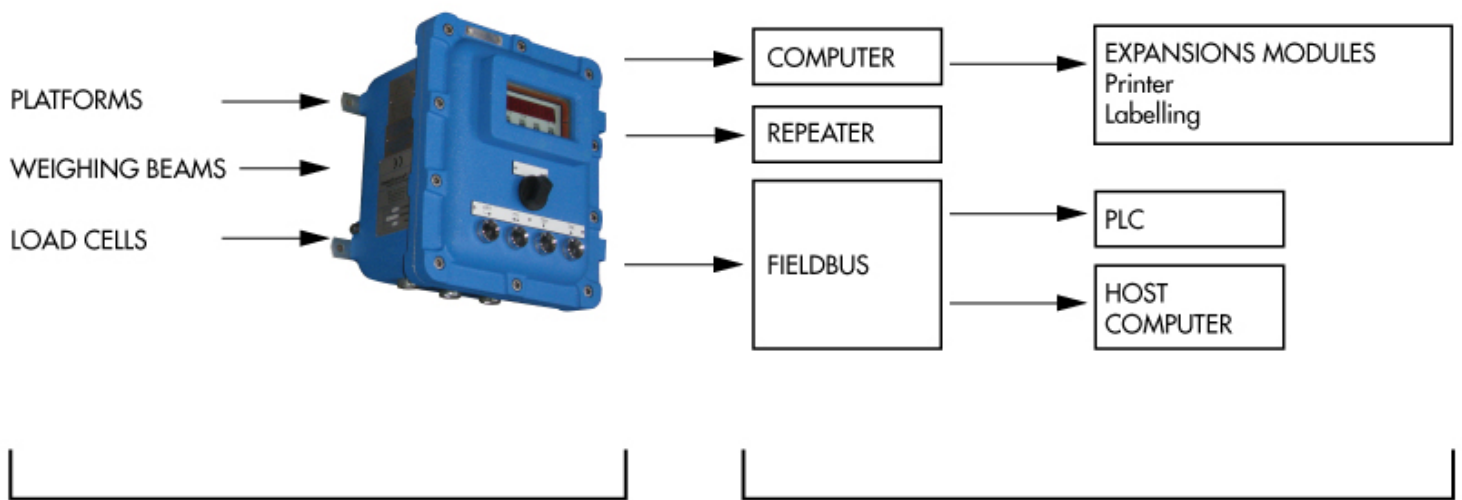
All indicated data may be changed without notice.  
All the measures indicated are expressed in millimeters (mm).

## Technical specifications

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<b>Measuring range:</b>	0.5 ÷ +3.5 mV/V
<b>Input sensitivity:</b>	0.02 $\mu$ V/count
<b>Full scale non-Linearity:</b>	<0.01 % full scale
<b>Gain drift:</b>	<0.001 % of full scale/°C
<b>A/D Converter:</b>	24 bits
<b>Transducer input voltage:</b>	max 5 V (max 6 cells of 350 Ohm) through intrinsic safety barriers
<b>Visible resolution (in divisions):</b>	60000
<b>Decimal figures range:</b>	0 ÷ 3
<b>Temperature range:</b>	-10 ÷ +50 ° C (max 85% humidity without condensation)
<b>Storage temperature:</b>	-20 ÷ +70 °C
<b>Filter:</b>	0.1 ÷ 25 Hz
<b>Logic output:</b>	2 outputs max 24 Vdc/100 mA cad
<b>Logic inputs:</b>	2 optoisolated 24 Vcc PNP (external power supply)
<b>Serial port:</b>	RS232C or RS422/RS485
<b>Power supply:</b>	24 Vdc $\pm$ 15 % - power consumption 5W or 115/230 Vac with integrated power supply
<b>Regulatory compliance:</b>	EN50081-1, EN5002-2 for EMC;
<b>Fieldbus:</b>	ASCII, Modbus RTU
<b>Baud rate:</b>	2400, 9600, 19200, 38400, 115200 selectable
<b>Transmission distance:</b>	15m (RS232C), 1000m (RS422; RS485)
<b>Analog output:</b>	16 bit

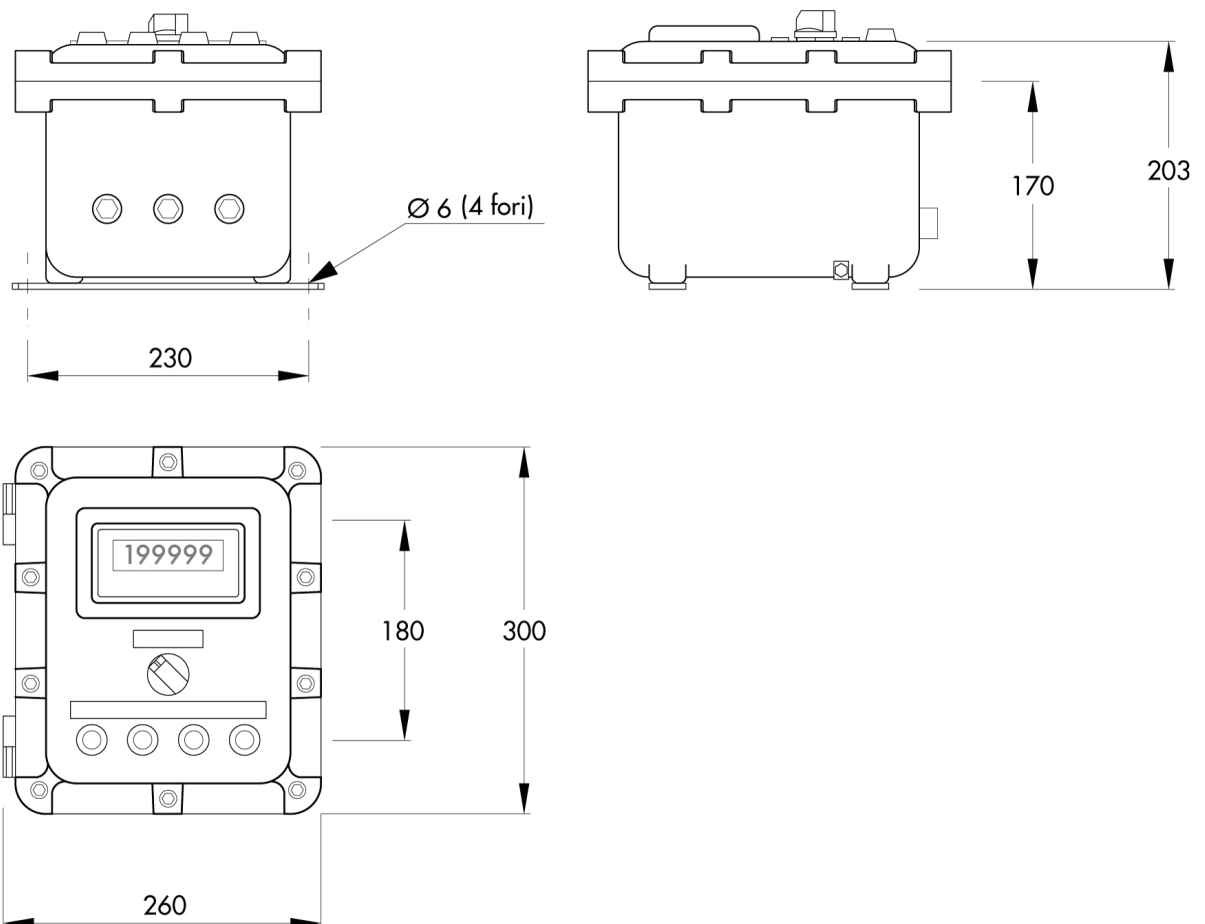
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HAZARDOUS AREA

SAFE AREA

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