DIWICON-G
DW 115 GEx
MICRO CONSUMPTION EXPLOSION-PROOF PRESSURE TRANSMITTER FAMILY

This product family has been optimized primarily to perform various technological pressure measurements and for leak detection. The pressure transmitters are typically used in the oil, gas, and chemical industries.

SPECIAL CHARACTERISTICS
- High fluctuation sensitivity
- Ultra fast reaction
- High resolution
- Micro consumption

GENERAL CHARACTERISTICS
- 30 mbar to 200 bar pressure range
- Precision: 0.5%
- ATEX certification
- Absolute pressure measurement
- Relative pressure measurement

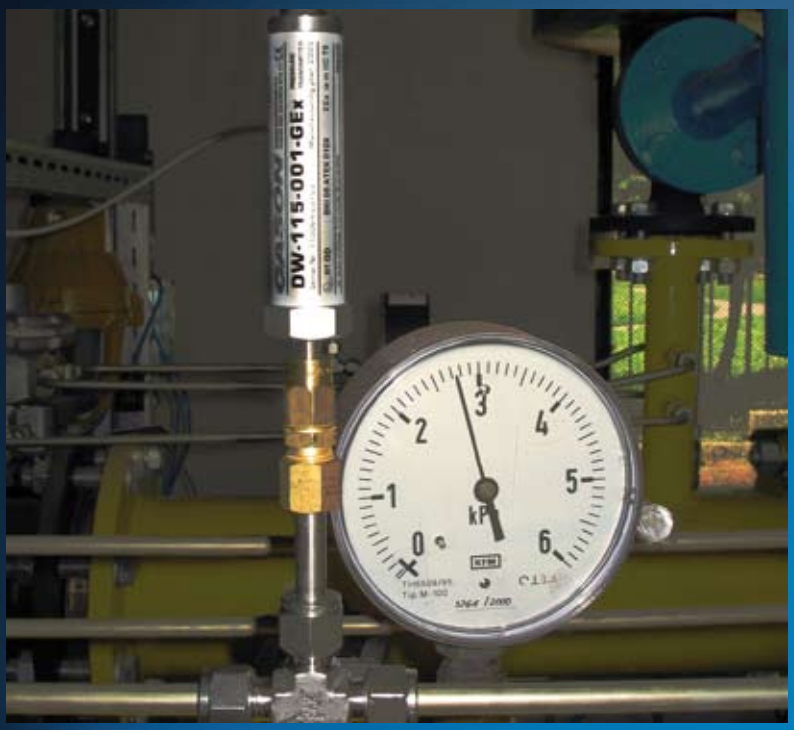
INDUSTRIAL DESIGN
- IP68 design (IEC 529 conform)
- Operational temperature range: -35°C to +60°C
- Numerous mechanical connections

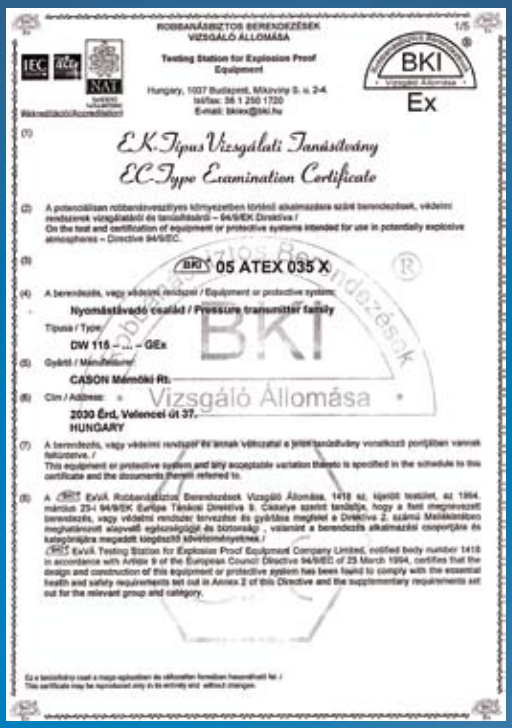
OUTPUTS
- Symmetric voltage output
- Asymmetric voltage output

TECHNICAL DATA

Power supply:	5.0 VDC
Nominal current:	325 µA
Power consumption:	1.6 mW
Resolution:	0.1 mbar
Precision:	0.5% to 1%
Noise Level:	-40 dB
Pressure Range:	30 mbar to 200 bar
Temperature compensation:	Yes
Measurements:	Absolute, relative
Outputs:	Differential voltage

Output voltage (symm.):	1.65 V ± 0.825 V
Casting Material:	Silicon based
Mechanical connections:	G 1/4" pipe thread NPT 1/4" conical G 1/8" hollander
Environmental temperature:	-35°C to +60°C
Storage temperature:	-40°C to +85°C
Max. humidity:	98%
Electrical protection:	IP68
Ex protection:	II1 GD EEx ia m IIC T6
Certificate number:	BKI 05 ATEX 035X





GENERAL INFORMATION

BACKGROUND

The DW 115 GEx product family has been optimized primarily to perform various technological pressure measurements and for leak detection. CASON Engineering has integrated 10 years of experience in operating leak detection systems into the engineering solutions of this product family. The DW 115 GEx pressure transmitters are typically used in the oil, gas, and chemical industries.

BENEFITS

This third generation pressure transmitter family is characterized by low power consumption and explosion-proof and intrinsic safety design. Another special characteristic is the high resolution and exceptionally fast reaction time to changes in pressure.

APPLICATION

The small size allows for use in many industrial applications. The IP68 design also allows for use when buried. Resistant to dust and fumes, it can be used in explosion hazard zones (zone 0, zone 1, zone 2). Carries internationally recognized ATEX certification.

CALIBRATION

The DW 115 GEx devices are issued with certification of factory calibration and accredited pressure sensor laboratory calibration. The calibration occurs at a minimum of 10 points.

ELECTRICAL DESIGN, POWER SUPPLY

In respect to the pressure measurement concept, the product family is a membrane - resistance bridge design. The signal processor electronics make an extremely high resolution possible with a characteristic value of 0.1 mbar. The pressure measurement is compensated for temperature. The DW 115 GEx requires a 5.0 VDC power supply.

ELECTRICAL OUTPUT

The transmitter family has an analog differential output. This output is capable of asymmetrical and symmetrical measurements.

MECHANICAL DESIGN

The DW 115 GEx transmitters are corrosion-proof, making them able to withstand the adverse conditions of nature and of hazardous industrial areas. Silicon casting protects the electronics from moisture and other damage. The product family is available with 3 types of threaded connectors: pipe threading with G 1/4" size, conical pipe threading with NPT 1/4" size, and hollander connection with G 1/8" size.

CASON

CASON Engineering Plc. Velencei út. 37. H-2030 Érd, Hungary
Tel: +36 (23) 522-100 • Fax: +36 (23) 522-190
office@casonplc.com • www.casonplc.com