



The HWE series of Gefran are pressure transmitters with HART communication protocol for using in high temperature environment. The main characteristic of this series is the capability to read temperature of the media up to 315°C. The constructive principle is based on the hydraulic trasmission of the pressure.

The fluid-filled system assures the temperature stability. The physical measure is transformed in a electrical measure by means of thick film strain-gauge technology. The SIL2 and PL d approvals make the product suitable for use in the Functional Safety applications, particularly in the process plants for the production of polymers, where it is an essential requirement.

MAIN FEATURES

- Pressure ranges from: 0-17 to 0-1000 bar / 0-250 to 0-15000 psi
- Accuracy: $< \pm 0.25\%$ FS (H); $< \pm 0.5\%$ FS (M)
- Fluid-filled system for temperature stability
- Oil filling meets FDA requirements CFR 178.3620 and CFR 172.878
- Functional Safety certification: SIL Level 2 according to IEC/EN 61508 e IEC/EN 620161
- Performance Level "d" approval
- 1/2-20UNF, M18x1.5 standard threads; other types available on request
- Autozero function on board / external option
- 17-7 PH corrugated diaphragm with GTP+ coating

GTP+ (advanced protection)

Coating with high resistance against corrosion, abrasion and high temperature

AUTOZERO FUNCTION

All signal variations in absence of pressure can be eliminated by using the Autozero function.

This function is activated by closing a magnetic contact located on the transmitter housing.

The procedure is permitted only with pressure at zero.

This function can be activated via HART as well.

TECHNICAL SPECIFICATIONS

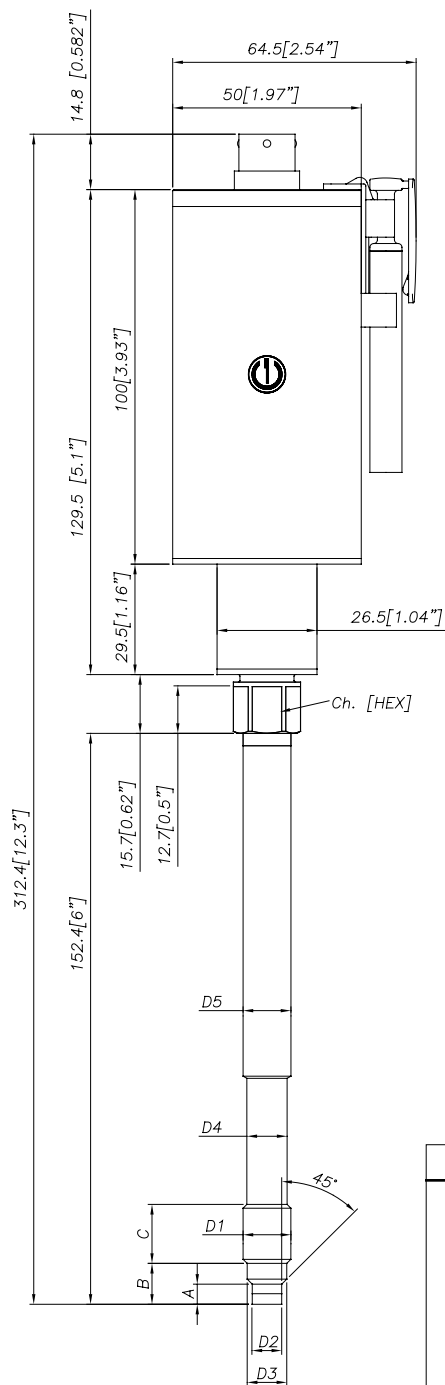
Accuracy (1)	H $< \pm 0.25\%$ FS (100...1000 bar) M $< \pm 0.5\%$ FS (10...1000 bar)
Resolution	16 Bit
Measurement range	0..17 to 0..1000bar 0..250 to 0..15000psi
Rangeability	3:1
Maximum overpressure (without degrading performances)	2 x FS 1.5 x FS above 500bar/7500psi
Measurement principle	Extensimetric thick film
Power supply	13...30Vdc
Maximum current absorption	23mA (40mA with relay optional)
Output signal Full Scale (FS)	20mA
Zero balance (tolerance $\pm 0.25\%$ FS)	4mA
Calibration signal	80% FS
Power supply polarity reverse protection	YES
Compensated temperature range housing	0...+85°C
Operating temperature range housing	-30...+85°C
Storage temperature range housing	-40...+125°C
Thermal drift in compensated range: Zero / Calibration / Sensibility	$< 0.02\%$ FS/°C
Diaphragm maximum temperature	315°C / 600°F
Zero drift due to change in process temperature (zero)	< 0.04 bar/°C
Standard material in contact with process medium	Diaphragm: • 17-7 PH corrugated diaphragm with GTP+ coating Stem: • 17-4 PH
Thermocouple (model HWE2)	STD: type "J" (isolated junction)
Protection degree (with 6-pole female connector CON300)	IP66
SIL2 certification	According to Standards IEC/EN 61508:2010 IEC/EN 62061:2005

FS = Full scale output :

(1) BFSL method (Best Fit Straight Line): includes combined effects of Non-Linearity, Hysteresis and Repeatability (according to IEC 62828-2)

MECHANICAL DIMENSIONS

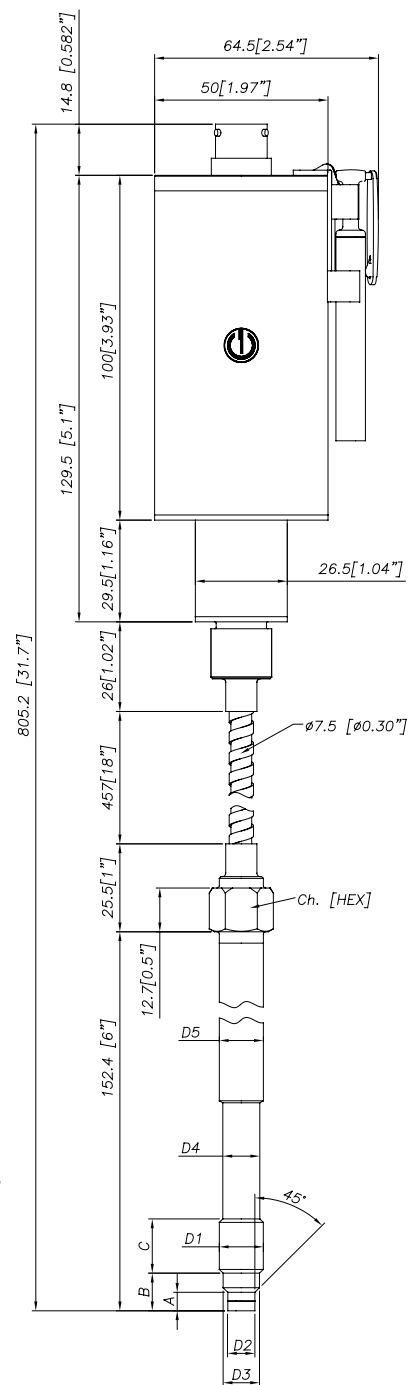
HWE0



D1	1/2 - 20UNF
D2	$\phi 7.8 - 0.05$ [$\phi 0.31$ - 0.002]
D3	$\phi 10.5 - 0.025$ [$\phi 0.41$ - 0.001]
D4	$\phi 10.67$ [$\phi 0.42$]
D5	$\phi 12.7$ [$\phi 0.5$]
A	$5.56 - 0.26$ [0.22 - 0.01]
B	11.2 [0.44]
C	15.74 [0.62]
Ch [Hex]	16 [$5/8$]

D1	M18x1.5
D2	$\phi 10 - 0.05$ [$\phi 0.394$ - 0.002]
D3	$\phi 16 - 0.08$ [$\phi 0.63$ - 0.003]
D4	$\phi 16 - 0.4$ [$\phi 0.63$ - 0.016]
D5	$\phi 18$ [$\phi 0.71$]
A	$6 - 0.26$ [0.24 - 0.01]
B	$14.8 - 0.4$ [0.58 - 0.016]
C	19 [0.75]
Ch [Hex]	19 [$3/4$]

HWE1

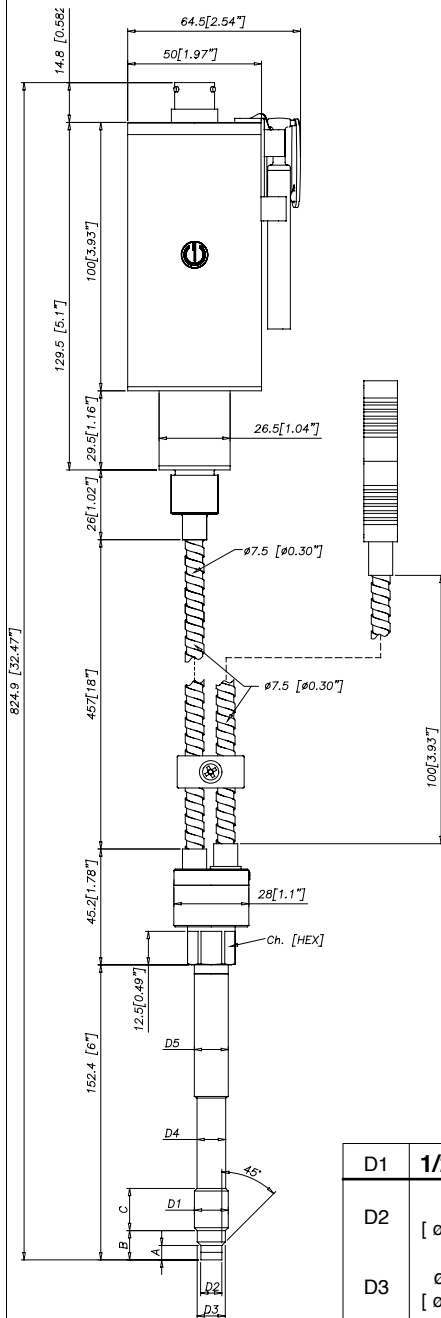


NOTE: dimensions refer to rigid stem length option "4" (153 mm– 6")

WARNING: For installation use a maximum tightening torque of 56 Nm (500 in-lb)

MECHANICAL DIMENSIONS

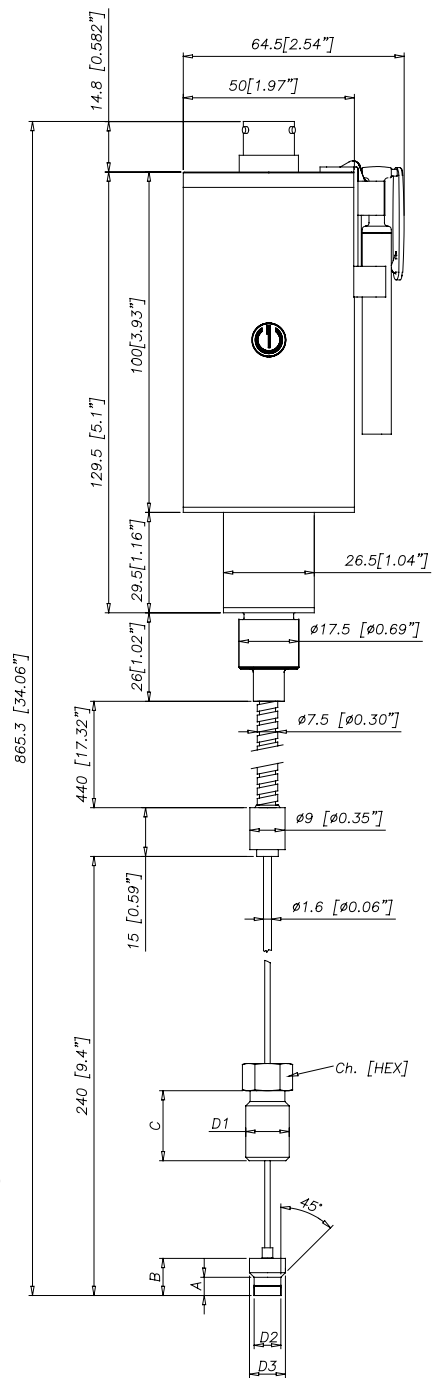
HWE2



D1	1/2 - 20UNF
D2	$\phi 7.8 -0.05$ [$\phi 0.31$ " -0.002]
D3	$\phi 10.5 -0.025$ [$\phi 0.41$ " -0.001]
D4	$\phi 10.67$ [$\phi 0.42$ "]
D5	$\phi 12.7$ [$\phi 0.5$ "]
A	5.56 -0.26 [0.22" -0.01]
B	11.2 [0.44"]
C	15.74 [0.62"]
Ch [Hex]	16 [5/8"]

D1	M18x1.5
D2	$\phi 10 -0.05$ [$\phi 0.394$ " -0.002]
D3	$\phi 16 -0.08$ [$\phi 0.63$ " -0.003]
D4	$\phi 16 -0.4$ [$\phi 0.63$ " -0.016]
D5	$\phi 18$ [$\phi 0.71$ "]
A	6 -0.26 [0.24" -0.01]
B	14.8 -0.4 [0.58" -0.016]
C	19 [0.75"]
Ch [Hex]	19 [3/4"]

HWE3



NOTE: dimensions refer to rigid stem length option "4" (153 mm– 6")

WARNING: For installation use a maximum tightening torque of 56 Nm (500 in-lb)

SELF DIAGNOSTICS (ONLY FOR SIL2 / PL d VERSIONS)

Below the conditions detected by the sensor self-diagnostics:

- Cut cable / device non connected / broken power supply, output $\leq 3.6\text{mA}$
- Pin detachment output $\leq 3.6\text{mA}$
- Broken primary element $\geq 21\text{mA}$
- Pressure above 200% of the span, output $\geq 21\text{mA}$
- Voltage monitor in case of overvoltage/undervoltage/voltage variation in the electronics, output $\leq 3.6\text{mA}$ (*)
- Program sequence error, output $\leq 3.6\text{mA}$ (*)
- Overtemperature on the electronics, output $\leq 3.6\text{mA}$ (*)
- Error on the primary element output or on the first amplification stage, output $\geq 21\text{mA}$

(*) In such conditions the Alarm Type can be programmed via HART at $\geq 21\text{ mA}$.

OPTIONAL RELAY OUTPUT FOR EXCESS PRESSURE PROTECTION

Safety relay characteristics:

- Activation threshold to be defined in the order code
- Rated carry current: 1A
- Rated voltage: 24Vdc $\pm 20\%$
- Switch accuracy: 2 x sensor accuracy
- Hysteresis: 2% FS

SUPPLY	OUTPUT	RELAY STATUS
OFF	-	OPEN
ON	$< X\%FS$	CLOSED
ON	$> X\%FS$	OPEN
ON	Output $\leq 3,6\text{mA}$	OPEN
ON	Output $\geq 21\text{mA}$	OPEN

NAMUR COMPLIANCE (ONLY FOR SIL2 / PL d VERSIONS) AUTOZERO FUNCTION

The sensors are tested according to Namur NE21 recommendations. The same compatibility is valid for the NE43 Namur recommendation with the following sensor behaviour in case of breakdown:

- Cut cable: breakdown information as the signal is $\leq 3.6\text{mA}$
- Device not connected: breakdown information as the signal is $\leq 3.6\text{mA}$
- Broken power-supply: breakdown information as the signal is $\leq 3.6\text{mA}$ or in case of performance problems:
- Broken primary element $\geq 21\text{mA}$
- Pressure above 200% of the span, output $\geq 21\text{mA}$
- Others $\leq 3.6\text{mA}$ (*)

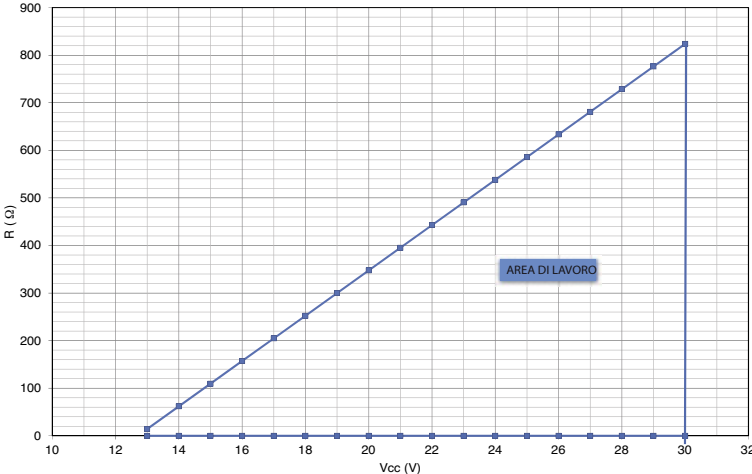
(*) In such a condition the Alarm Type can be programmed via HART at $\geq 21\text{ mA}$.

Note: in all the remaining situations, the output signal is always included between 3.8 and 20.5mA.

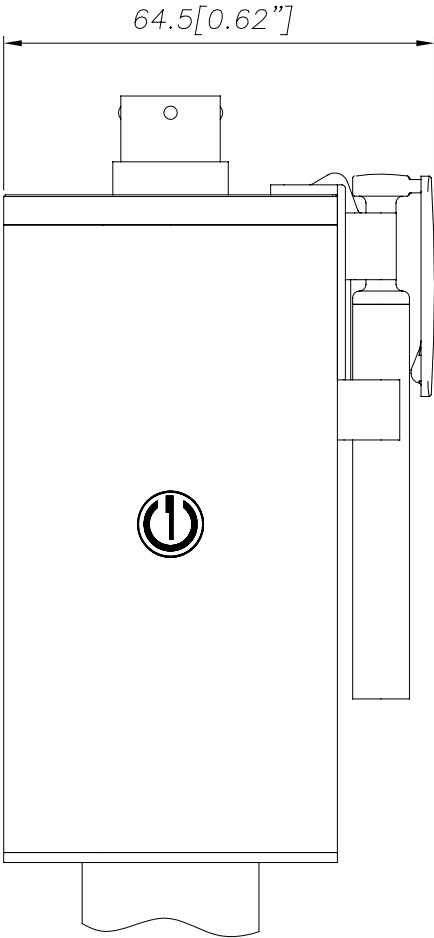


Recommendation: the error level set by the customer (e.g. maximum pressure value) has to be inside the nominal range.

LOAD DIAGRAM



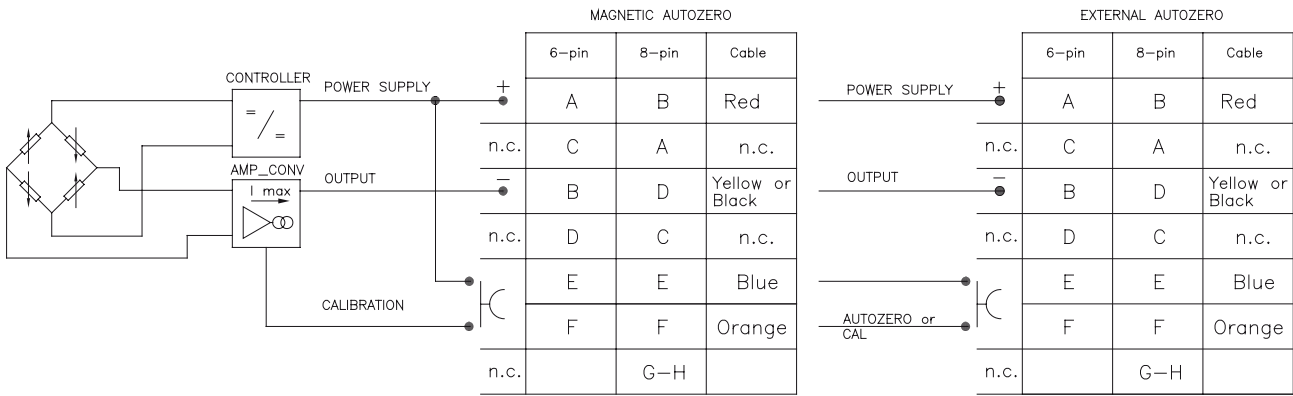
Nel diagramma riportato è rappresentato il rapporto ottimale tra il carico
The diagram shows the optimum ratio between load and power supply
for transmitters with 4...20mA output.
For correct function, use a combination of load resistance and voltage
that falls within the two lines in the graph above.



The Autozero function is activated through a magnetic contact (external magnet supplied with the sensor).
The Autozero function can be activated through HART command as well.
See the manual for a complete Autozero function explanation.

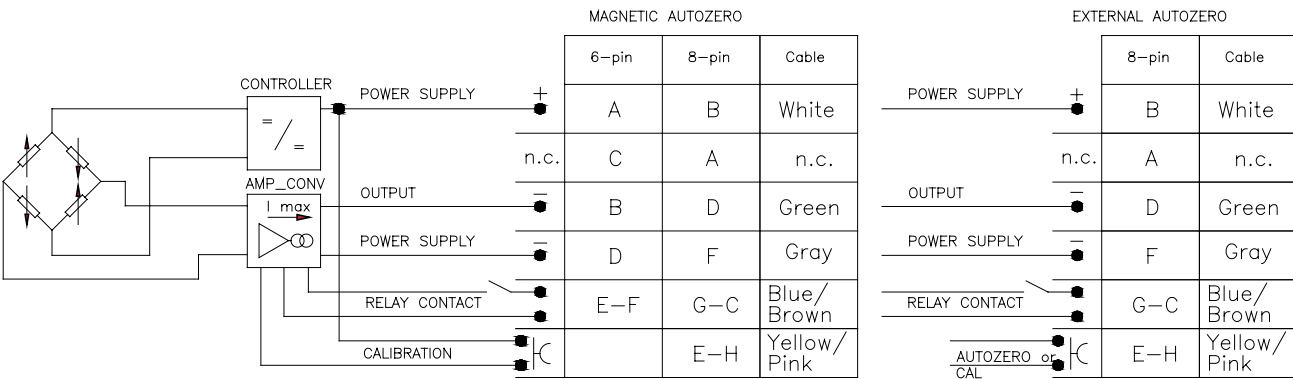
ELECTRICAL CONNECTIONS

CURRENT OUTPUT



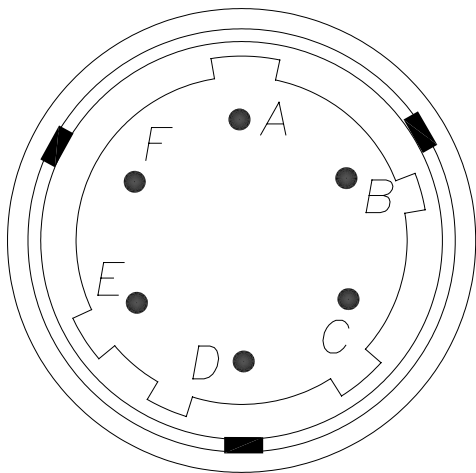
The cable shield is tied to both sides, i.e. to the sensor connector and to the controller

RELAY OUTPUT

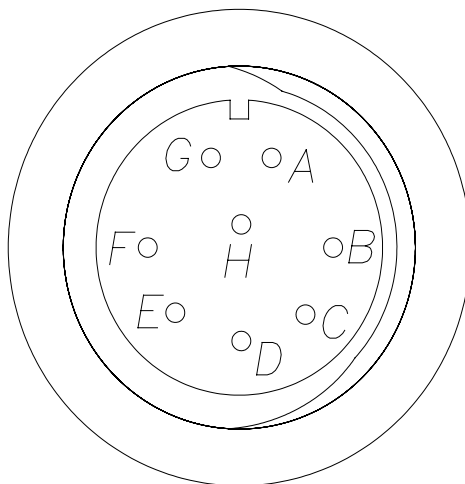


The cable shield is tied to both sides, i.e. to the sensor connector and to the controller

6 pin Connector VPT07RA10-6PT2
(PT02A-10-6P)

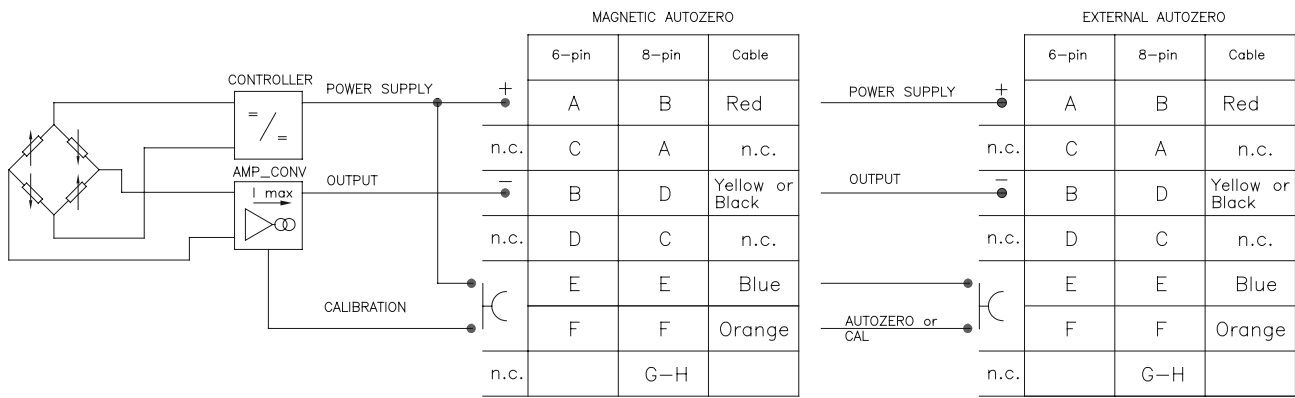


8 pin Connector
(PC02E-12-8P) Bendix



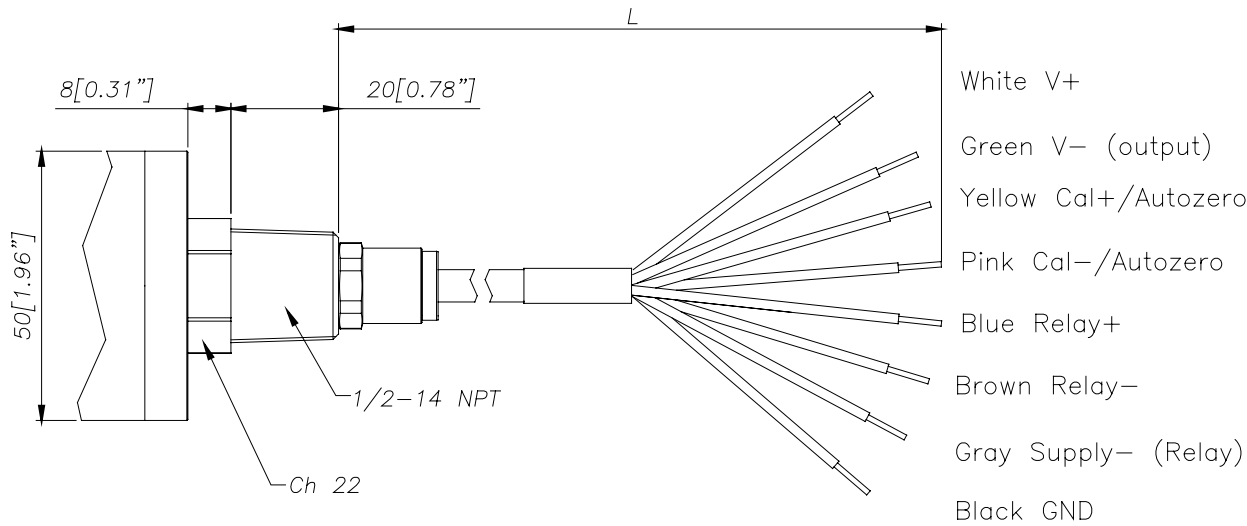
CABLE OUTPUT (1/2 14-NPT) L = 1 m

CURRENT OUTPUT



The cable shield is tied to both sides, i.e. to the sensor connector and to the controller

RELAY OUTPUT
Magnetic Autozero / External Autozero



ACCESSORIES

Connectors

6-pin female connector (IP66 protection degree)
8-pin female connector

CON300
CON307

Extension cables

6-pin connector with 8m (25ft) cable
6-pin connector with 15m (50ft) cable
6-pin connector with 25m (75ft) cable
6-pin connector with 30m (100ft) cable

C08WLS
C15WLS
C25WLS
C30WLS

Accessories

Mounting bracket
Dummy plug for 1/2-20UNF
Dummy plug for M18x1.5
Drill kit for 1/2-20UNF
Drill kit for M18x1.5
Cleaning kit for 1/2-20UNF
Cleaning kit for M18x1.5
Fixing pen clip
Autozero pen

SF18
SC12
SC18
KF12
KF18
CT12
CT18
PKIT 1032
PKIT 378

Thermocouple for HWE2 model

Type "J" (153mm - 6" rigid rod)

TTER 601

Cable color code	
Conn	Wire
A-2	Red
B-4	Black
C-1	White
D-6	Green
E-7	Blue
F-3	Orange
5	Grey
8	Pink

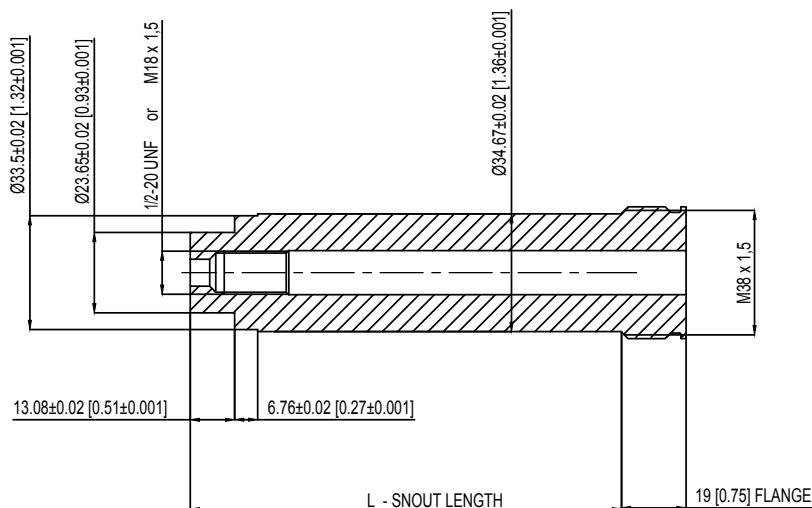
PROCESS FLANGE ADAPTER

The process flange adapter is a sensor accessory that allows for the installation of 1/2-20 UNF or M18x1.5 melt pressure sensor in a button seal style process mounting port. The adapter is made with an adapter body with different snout lengths plus an adapter flange available in different sizes (see tables and drawing below). Each combination of snout and flange is available according to the ordering information with a specific ordering code.

SPECIFICATIONS

- Pressure range: according to the selected sensor (up to 1000 bar/15000 psi max)
- Temperature range: according to the selected sensor
- Material of construction: 17-4PH Stainless steel

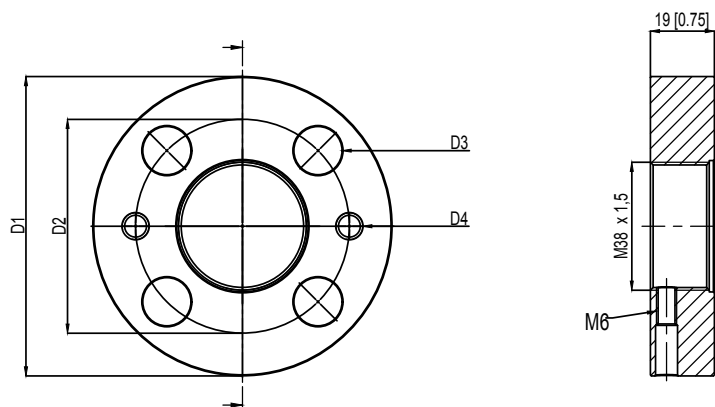
ADAPTER BODY



1/2-20 UNF	L - SNOUT LENGTH
STE1020	127 [5]
STE1021	51,6 [2,031]

M18 X 1,5	L - SNOUT LENGTH
STE1022	127 [5]
STE1023	51,6 [2,031]

ADAPTER FLANGE



	FLA960	FLA961
D1	82.6 [3,25]	88,9 [3,50]
D2	54 [2,14]	63,5 [2,50]
D3	13,2 [0,52]	14,3 [0,56]
D4	5/16-18 UNC	5/16-18 UNC

ORDER CODE

KIT - 5 - 0 - 1

Snout length	
5 inch [127 mm]	5
2,031 inch [51,6 mm]	2
Flange type (see technical drawing)	
FLA960	0
FLA961	1
Thread dimensions	
1/2-20 UNF	1
M18 x 1,5	4

ADAPTER GASKESTS			
Material	Dimensions	Max Pressure	Ord. Code
Aluminium	30.2 mm [1.19"] OD 24.1 mm [.950"] ID	200 bar/3000 psi	RON360
AISI 303 SS	30.2 mm [1.19"] OD 24.1 mm [.950"] ID	700 bar/10000 psi	RON361

Example:

KIT501

Process adapter with 5" snout length, 82.6 mm size flange, suitable for 1/2-20 UNF melt sensor

ORDER CODE

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">OUTPUT SIGNAL</th> </tr> <tr> <td style="width: 50%;">4...20mA</td> <td style="width: 50%; text-align: center;">E</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">VERSION</th> </tr> <tr> <td style="width: 50%;">Rigid rod</td> <td style="width: 50%; text-align: center;">0</td> </tr> <tr> <td>Rigid + flexible rod</td> <td style="text-align: center;">1</td> </tr> <tr> <td>With thermocouple</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Exposed capillary</td> <td style="text-align: center;">3</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">CONNECTOR</th> </tr> <tr> <td style="width: 50%;">6 pin</td> <td style="width: 50%; text-align: center;">6</td> </tr> <tr> <td>8 pin</td> <td style="text-align: center;">8</td> </tr> <tr> <td>NPT Cable</td> <td style="text-align: center;">N</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">ACCURACY CLASS</th> </tr> <tr> <td style="width: 50%;">0.25% FS (ranges ≥ 100 bar/1500 psi)</td> <td style="width: 50%; text-align: center;">H</td> </tr> <tr> <td>0.5% FS</td> <td style="text-align: center;">M</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">MEASUREMENT RANGE</th> </tr> <tr> <th colspan="2">bar</th> <th colspan="2">psi</th> </tr> <tr> <td style="width: 10%;">17</td> <td style="width: 10%; text-align: center;">B17U</td> <td style="width: 10%;">250</td> <td style="width: 10%; text-align: center;">P25D</td> </tr> <tr> <td>35</td> <td style="text-align: center;">B35U</td> <td>500</td> <td style="text-align: center;">P05C</td> </tr> <tr> <td>50</td> <td style="text-align: center;">B05D</td> <td>750</td> <td style="text-align: center;">P75D</td> </tr> <tr> <td>70</td> <td style="text-align: center;">B07D</td> <td>1000</td> <td style="text-align: center;">P01M</td> </tr> <tr> <td>100</td> <td style="text-align: center;">B01C</td> <td>1500</td> <td style="text-align: center;">P15C</td> </tr> <tr> <td>200</td> <td style="text-align: center;">B02C</td> <td>3000</td> <td style="text-align: center;">P03M</td> </tr> <tr> <td>350</td> <td style="text-align: center;">B35D</td> <td>5000</td> <td style="text-align: center;">P05M</td> </tr> <tr> <td>500</td> <td style="text-align: center;">B05C</td> <td>7500</td> <td style="text-align: center;">P75C</td> </tr> <tr> <td>700</td> <td style="text-align: center;">B07C</td> <td>10000</td> <td style="text-align: center;">P10M</td> </tr> <tr> <td>1000</td> <td style="text-align: center;">B01M</td> <td>15000</td> <td style="text-align: center;">P15M</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">THREADING</th> </tr> <tr> <th colspan="2">Standard</th> </tr> <tr> <td style="width: 50%;">1/2 - 20 UNF</td> <td style="width: 50%; text-align: center;">1</td> </tr> <tr> <td>M18 x 1.5</td> <td style="text-align: center;">4</td> </tr> </table>	OUTPUT SIGNAL		4...20mA	E	VERSION		Rigid rod	0	Rigid + flexible rod	1	With thermocouple	2	Exposed capillary	3	CONNECTOR		6 pin	6	8 pin	8	NPT Cable	N	ACCURACY CLASS		0.25% FS (ranges ≥ 100 bar/1500 psi)	H	0.5% FS	M	MEASUREMENT RANGE				bar		psi		17	B17U	250	P25D	35	B35U	500	P05C	50	B05D	750	P75D	70	B07D	1000	P01M	100	B01C	1500	P15C	200	B02C	3000	P03M	350	B35D	5000	P05M	500	B05C	7500	P75C	700	B07C	10000	P10M	1000	B01M	15000	P15M	THREADING		Standard		1/2 - 20 UNF	1	M18 x 1.5	4	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">0000</td> <td style="width: 10%; text-align: center;">X</td> <td style="width: 10%; text-align: center;">000</td> <td style="width: 10%; text-align: center;">X</td> <td style="width: 10%; text-align: center;">0</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Output relay version (activation threshold): X = no relay B = 80% fs A = 70% fs C = 90% fs</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">000= Special executions</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">E</td> <td style="width: 90%;">External Autozero (*)</td> </tr> <tr> <td style="text-align: center;">0</td> <td>Magnetic Autozero</td> </tr> </table> (*) as an alternative to the CAL function <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">P</td> <td style="width: 90%;">Performance Level='d'</td> </tr> <tr> <td style="text-align: center;">S</td> <td>SIL2</td> </tr> <tr> <td style="text-align: center;">0</td> <td>Standard 4...20mA</td> </tr> </table> <table border="1" style="width: 100%; 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8	456mm	18"																																																																																																																																																																																				

Example

HWE1-6-M-B07C-1-4-D-P-0

Melt pressure transmitter, 4...20mA output with HART protocol, 6-pin connector, 1/2-20 UNF threading, 700 bar pressure range, 0.5% accuracy, 153 mm (6") rigid rod, 457 mm (18") flexible rod; Performance Level='d'.

Sensors are manufactured in compliance with:

- EMC compatibility directive
- RoHS directive
- Machinery directive

Electrical installation requirements and conformity certificate are available on our web site: www.gefran.com

(*) note: max. combined rigid / flexible stem length is 914mm - 36"

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice.

GEFRAN spa

via Sebina, 74

25050 PROVAGLIO D'ISEO (BS) - ITALIA

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