TEIP11-PS
I/P signal converter for standard signals

Measurement made easy

Proven and reliable concept

Compact design
— Small dimensions, low weight

Sturdy construction and solid functionality
— Influence of shock and vibration < 1% at 10 g

Variety of signal ranges
— Input, e.g., 0 ... 20 mA or 4 ... 20 mA
— Output 0.2 ... 1 bar (3 ... 15 psi)

Complies with the following directives
— EMC Directive 89/336/EEC as of May 1989
— CE mark meets the EC directive for the CE certificate of conformity

Additional temperature range
— From -40 (optional -55) ... 85 °C
   (-40 (optional -67) ... 185 °F)

Ex protection approvals
— ATEX, FM/CSA, GOST for intrinsically safe and Explosion proof operation

Several different designs
— IP 20 control room housing unit for rail mounting
— IP 20 control room housing unit for block mounting
— IP 54 plastic field housing unit
— IP 65 aluminum or stainless steel housing unit

Single module
— For OEM application (upon request)
TEIP11-PS
I/P signal converter for standard signals

Concept

The TEIP11-PS signal converter converts electrical standard signals, e.g. 4 … 20 mA to 0.2 … 1 bar (3 ... 15 psi). It is therefore a connecting link between electrical/electronic and pneumatic systems. The signal conversion process is similar to the patented force balance method. Special features of the TEIP11-PS signal converter are its relatively small dimensions and outstanding operational stability when subject to shock and vibration. The converter can be subjected to loads up to 10 g with less than 1% effect on function.

The housing units are available in a variety of models to meet your installation requirements. For potentially explosive conditions, units that offer intrinsically safe operation or pressure-resistant encapsulation are available with international approval certificates for use worldwide. Various ranges can be supplied on the input side and the output side for signal conversion (see information in chapter Technical Data, page 3). A power supply of only 1.4 bar (20 psi) of compressed air is required.

Designs

Control room housing unit for rail mounting
The control room housing unit for rail mounting is the most user-friendly and lowest priced model in the signal converter line. A mounting base that is compatible with all commercially available EN rails is used for installation. The housing unit with plastic cap has an IP 20 protection class.

Control room housing unit for block mounting
The control room housing unit for block mounting enables you to install a number of converters in a small space. This design features central air supply via connection block and stop valves in the air connectors of the integrated signal converter. A maximum of 4 signal converters can be fitted on the connection blocks required for block mounting. If necessary, 2 or 3 (or max. 4) connection blocks can be connected to each other to create block units of 4-8-12-16 signal converters. Stop valves allow you to mount or remove individual converters during operation.

Field housing
The field housing unit is designed for installation onsite or in the field. Housing units are available in the following models (and protection classes): plastic (IP 54), aluminum (IP 65) and stainless steel (IP 65). The housing units are suitable for wall mounting and 2" pipe mounting. A specially designed signal converter in a plastic housing unit enables the use of combustible gas as a power supply instead of the standard compressed air.

Fig. 1
1 Control room housing unit for rail mounting
2 Control room housing unit for block mounting
3 Plastic field housing unit
4 Aluminum or stainless steel field housing unit
Technical Data

Input (electric)
Signal range
0 ... 20 mA or 4 ... 20 mA
0 ... 10 mA or 10 ... 20 mA
4 ... 12 mA or 12 ... 20 mA
(additional ranges available upon request)

Input resistance
Ri = 260 Ω at 20 °C (68 °F), Tk + 0.4 %/K

Overload limit
30 mA (for explosion-proof devices, see the information in chapter "Ex relevant specifications" on page 6)

Capacitance/inductance
Negligible

Output (pneumatic)
Signal range
0.2 ... 1 bar (3 ... 15 psi)

Air capacity
≥ 5 kg/h = 4.1 Nm³/h = 2.4 scfm

Load power acc. to VDE / VDI 3520
≥ 0.95 kg/h = 0.9 Nm³/h = 0.5 scfm

Power supply (pneumatic)
Instrument air
Free of oil, water, and dust acc. to DIN/ISO 8573-1
Pollution and oil content according to Class 3
Pressure dew point 10 K below operating temperature

Supply pressure
1.4 ± 0.1 bar (20 ± 1.5 psi) (for output 1 bar (15 psi))

Air consumption
≤ 0.2 kg/h = 0.16 Nm³/h = 0.1 scfm

Transmission data and influences
Characteristic curve
Linear, direct, or reverse action

Deviation
≤ 0.5 %

Hysteresis
≤ 0.3 %

Dead band
≤ 0.1 %

Temperature
≤ 1 % / 10 K within -20 ... 85 °C (-4 ... 185 °F)
≤ 2 % / 10 K within -55 ... -20 °C (-67 ... -4 °F)

Power supply
≤ 0.3 % / 0.1 bar (1.5 psi) change in pressure

Mechanical vibration
≤ 1 % up to 10 g and 20 ... 80 Hz

Seismic vibration
Meets the requirements of DIN IEC 68-3-3 Class III for strong and strongest earthquakes.

Mounting orientation
Zero point ≤ 0.4 % at 90° change of position

Step response
10 ... 90 % and 90 ... 10 % 0.6 s
5 ... 15 % and 15 ... 5 % 0.25 s
45 ... 55 % and 55 ... 45 % 0.2 s
85 ... 95 % and 95 ... 85 % 0.15 s

EMC
Meets the requirements of EMC Directive 89/336/EEC of May 1989 (increased interference immunity as per EN 50082-2 PR of 11/93).

CE marking
Complies with the EC directive for CE conformity
TEIP11-PS
I/P signal converter for standard signals

Operating conditions at installation site

Ambient temperature
Depending on the ordered model:
-40 … 85 °C (-40 ... 185 °F)
-55 … 85 °C (-67 ... 185 °F)
For Ex d:
-40 … 85 °C (-40 ... 185 °F)

Required protection
IP 20 for control room housing unit for rail or block mounting,
IP 54 for plastic housing unit,
IP 65 for aluminum or stainless steel field housing unit

Mounting position
Any

Environmental capabilities

Climate class
GPF or FPF acc. to DIN 40040
Temperature:
-55 … 85 °C (-67 ... 185 °F)
-45 … 85 °C (-49 ... 185 °F)
Relative humidity for operation, storage, or transport:
75 % average, 95 % short-term, no condensation

Design for rail mounting

Material / Degree of protection
IP 20 aluminum housing unit, with plastic cover

Assembly
Rail mounting:
EN 50022 - 35 x 7.5
EN 50035 - G 32
EN 50045 - 15 x 5

Electrical connection
2-pole screw terminal for 2.5 mm² (14 AWG)

Pneumatic connection
1/8 NPT tap hole for air supply and output

Weight
0.25 kg (0.55 lb)

Dimensions
See chapter "Dimensions".

Design for block mounting

Material/protection class
IP 20 aluminum housing unit, with plastic cover

Assembly
In block format with special connection block (accessory),
max. 4 connection blocks each with 4 signal converters

Electrical connection
2-pole screw terminal for 2.5 mm² (14 AWG)

Pneumatic connection
3/8 NPT tap hole for air supply
(main connection to connection block)
1/8 NPT tap hole for output
(on each individual signal converter)

Mounting position
Any

Weight
0.3 kg (0.66 lb)

Dimensions
See chapter "Dimensions".
Design for field housing unit (plastic)
Material / Degree of protection
Polyester housing unit, black, IP 54

Assembly
Wall or 2" pipe mounting
(2" pipe mounting for vertical pipes only)

Electrical connection
2-pole screw terminal for 2.5 mm² (14 AWG) in housing unit,
Pg 11 cable gland for cable entry

Pneumatic connection
1/8 NPT tap hole for air supply and output

Air outlet
For gas exhaust with 6 mm (0.24 inch) cut or crimp connection

Mounting position
Any

Weight
1.0 kg (2.20 lb)

Dimensions
See chapter "Dimensions".

Design for field housing unit (aluminum/stainless steel)
Material / Degree of protection
IP 65 aluminum or stainless steel housing unit

Surface
Aluminum housing,
painted with dual component coating,
lower section, black, RAL 9005,
screw-on cover, Pantone 420,
stainless steel housing unit,
electrolytically polished

Assembly
Wall or 2" pipe mounting
With stainless steel mounting bracket (accessory)

Electrical connection
2-pole screw terminal for 2.5 mm² (14 AWG) in housing unit,
NPT 1/2" cable gland for cable entry
For ATEX "intrinsically safe":
M20 x 1.5 tap hole for cable entry
For ATEX "Ex d":
(Cable gland with Ex d approval available as an accessory on request)
NPT 1/2" tap hole for cable entry with FM/CSA

Pneumatic connection
1/4" NPT tap hole for air supply and output

Weight
0.62 kg (1.37 lb) with aluminum housing unit
1.20 kg (2.65 lb) with stainless steel housing unit

Dimensions
See chapter "Dimensions".

Accessories
"Ex d" cable gland
Brass, with M20 x 1.5 thread

Stainless steel mounting bracket for wall mounting or
2"-pipe mounting
For aluminum or stainless steel field housing unit

Material for block mounting
Connection block for 4 signal converters,
panel with 3/8 NPT central air connector,
dummy panel
TEIP11-PS
I/P signal converter for standard signals

Ex relevant specifications

ATEX/GOST
Flameproof enclosure

Labelling
II 2 G Ex d IIC T4/T5/T6 Gb
Certificate of conformity
DMT 02 ATEX E 121 X
Type
DOC. 900771
Device class
II 2G
Standards
EN 60079-0: 2012
(General requirements)
EN 60079-1: 2007
(Flameproof enclosure "d")

Electrical data
Current
≤ 50 mA

Pneumatic data
Supply pressure
< 10 bar
Output signal
< 1 bar

Pneumatic data TEIP11-PS
Supply pressure
< 2.5 bar
Output signal
< 2 bar

Thermal data
T4: -40 °C < Tamb < 85 °C
T5: -40 °C < Tamb < 70 °C
T6: -40 °C < Tamb < 55 °C

Special Requirements
The I/P converter is suitable for use in an ambient temperature range of -40 °C to max. 85 °C.
If the I/P converter is used at an ambient temperature above 60 °C or below -20 °C, use cable entries and cables suitable for a service temperature corresponding to the maximum ambient temperature increased by 10 K or corresponding to the minimum ambient temperature.

Versions with an intrinsically safe control head may no longer be used as "intrinsically safe" if they have been previously used as a flameproof type of ignition protection with a non-intrinsically-safe power supply.

Operation as intrinsically safe equipment

Labelling
II 2G Ex ia IIC T6 resp. T4 Gb
Certificate of conformity
TÜV 99 ATEX 1487 X
Type
TEIP11, Doc. 901068-SMDxxxx
TEIP11-PS, Doc. 901068-SMDxxxx
TEIP11-PS, Doc. 901069-SMDxxxx

Device class
II 2G
Standards
EN 60079-0:2009
EN 60079-11:2012

Temperature classes for the following versions:
TEIP11 Doc. 901068-SMD and TEIP11-PS Doc. 901068-SMD and TEIP11-PS Doc. 901069-SMD

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<td>-55 ... 60 °C</td>
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<tr>
<td>T4</td>
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<td>-55 ... 85 °C</td>
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<tr>
<td>T6</td>
<td>60 mA</td>
<td>-55 ... 40 °C</td>
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TEIP11 Doc. 901068 and TEIP11-PS Doc. 901069 and TEIP11-PS Doc. 901069

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<td>-55 ... 55 °C</td>
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Explosion protection ratings

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<td>150 mA</td>
<td>25.5 V</td>
<td>3.825 W</td>
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Special Requirements

The I/P converter TEIP11-PS Doc. type 901069 or Doc. 901069-SMD must be set up outdoors as a pneumatic power supply when used with combustible gases.

The supplied gas must be kept sufficiently free of air and oxygen to prevent a potentially explosive atmosphere from forming.

The gas must always be routed to the outside.

FM/CSA

Intrinsically safe FM
FM "intrinsically safe" (not for metal field housing units)
I.S.: CL I/Div 1/Grp A B C D

FM "intrinsically safe" (only for metal field housing units)
I.S.: CL I-II-II/Div 1/Grp A B C D E F G
S.: CL II/Div 2/Grp G
S.: CL III/Div 2

Non-incendive FM
N.I.: CL I/Div 2/Grp A B C D (not for metal field housing units)
N.I.: CL I/Div 2/Grp A B C (only for metal field housing units)

Intrinsically safe CSA
CSA "intrinsically safe" (not for metal field housing units)
I.S.: CL I/Div 1/Grp A B C D
CL I / Div 2 / Grp A B C D

CSA "intrinsically safe" (only for metal field housing units)
I.S.: CL I/Div 1/Grp A B C D
CL II / Div 1 / Grp E F G
CL III
CL I / Div 2 / Grp A B C D
CL II / Div 2 / Grp E F G

Non-incendive CSA
FM "explosion proof" (only for metal field housing units)
X.P.: CL I/Div 1/Grp B C D
D.I.P.: CL II III/Div 2/Grp E F G

CSA "explosion proof" (only for metal field housing units)
X.P.: CL I/Div 1/Grp B C D
Dimensions

Design for control room housing unit for rail mounting

Fig. 2: Sensor side, dimensions in mm (inch)

1. Electrical connections
2. Filter
3. Output
4. Air supply
5. Mounting element for DIN rail mounting
Design for control room housing unit for block mounting

Fig. 3:  Dimensions in mm (inches)
① Output  ② Air supply  ③ Filter  ④ Electrical connections  ⑤ Panel with central air supply connection  ⑥ Connection blocks  ⑦ Dummy panel

1) 0.2 ... 1 bar (2.90 ... 14.50 psi) version
2) 0.4 ... 1 bar (5.80 ... 14.50 psi) version
3) Length 80 mm (3.15 inch) for each connection block
Fig. 4: Dimensions in mm (inches)
① Electrical connections  ② Connection only with version for operation with combustible gas for diverting the escaping gas/6 mm (0.24) screw crimp connection  ③ Air supply  ④ Output  ⑤ Cable gland
Design for aluminum or stainless steel field housing unit

Fig. 5: Dimensions in mm (inches)

1. Ground terminal  
2. Electrical connections  
3. Output  
4. Air supply  
5. Filter  
6. Profiled sheet for wall mounting  
7. Cable gland
## Ordering information

### Main ordering information TEIP11-PS

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<th>Base model</th>
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### Explosion Protection

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### Design

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### Input Signal

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### Output Signal

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### Characteristic

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### Ambient Temperature

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<td>-55 ... 85 °C</td>
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## Additional ordering information TEIP11-PS

### Certificate of Compliance
- Certificate of compliance with the order acc. EN 10204-2.1 (DIN 50049-2.1) with item description CF2
- Test report 2.2 acc. EN 10204 (DIN 50049-2.2) CF3

### Inspection Certificate
- Inspection certificate 3.1 acc. EN 10204 CBA

### Device Identification Label
- Stainless steel 18.5 x 65 mm (0.73 x 2.56 in.) MK1
- Sticker 11 x 25 mm (0.43 x 0.98 in.) MK3

### Operation with Inflammable Gas
- Increased climate stability 300
- Operation with inflammable gas 4) 480
- No special approval 999

### Special Input Signal
- 0 ... 10 mA 501
- 10 ... 20 mA 502
- 4 ... 12 mA 503
- 12 ... 20 mA 504
- Specify split-range 505
- Special input range 506
- No special input range 999

### Special Output Signal
- 1 ... 18 psi 511
- 20 ... 100 kPa 513
- 0.2 ... 1 kg/cm² 514
- 0.2 ... 1.8 bar 5) 515
- 3 ... 27 psi 6) 512
- 0.4 ... 2 bar 5) 508
- 6 ... 30 psi 6) 509
- Special output signal 999

1) Only with aluminium or stainless steel field housing
2) Not with field housing
3) Not with explosion protection Ex d or FM / CSA explosion proof
4) Only for signal converter EEx ia II C with polyester field housing
5) Supply pressure 2.5 bar
6) Supply pressure 37 psi

### Accessories

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<th>Accessories</th>
<th>Order code</th>
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<td>TEIP11-PS Cable gland EEx d, brass, M 20 x 1.5 thread</td>
<td>319343</td>
</tr>
<tr>
<td>TEIP11-PS Mounting bracket, stainless steel, for wall mounting</td>
<td>319344</td>
</tr>
<tr>
<td>TEIP11-PS Mounting bracket, stainless steel, for wall or 2 in. pipe mounting</td>
<td>319345</td>
</tr>
<tr>
<td>TEIP11-PS Connection block for 4 converters</td>
<td>7958243</td>
</tr>
<tr>
<td>TEIP11-PS Termination block with central supply air connection 3/8 NPT</td>
<td>7958251</td>
</tr>
<tr>
<td>TEIP11-PS Termination block without connection</td>
<td>7958245</td>
</tr>
</tbody>
</table>
Note
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