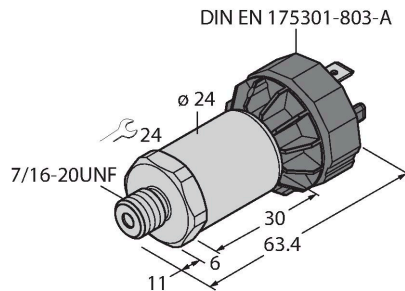


# PT130PSIV-2005-U1-DA91/X

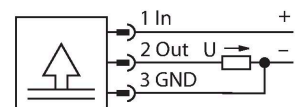
## Pressure Transmitter – With Voltage Output (3-Wire)



### Features

- Fully welded metal measuring cell
- Pressure range -15...130 psi rel.
- Pressure peak orifice
- 12...33 VDC
- Analog output 0...10 V
- Process connection 7/16" UNF (SAE) male thread
- Plug-in device, DIN EN 175301-803-A

### Wiring diagram



### Functional principle

The pressure sensors in the PT...-2000 product series operate with a fully welded metal measuring cell in various pressure ranges of up to -1...1000 bar in 2-, 3- or even 4-wire technology. Depending on the sensor variant, the processed signal is available as an analog output signal (4...20 mA, 0...10 V, 0...5 V, 1...6 V, ratiometric) or as a digital IO-Link process parameter. The IO-Link sensor variants also have two independently configurable switching outputs. In addition to the standard variants, there are special sensors for uses such as ATEX areas or for oxygen applications. A wide range of process connections and electrical connections offer a high degree of flexibility in a wide range of applications.

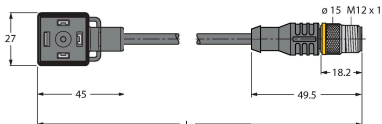
### Technical data

|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| Type                                      | PT130PSIV-2005-U1-DA91/X               |
| ID                                        | 6837537                                |
| Pressure type                             | Relative pressure                      |
| Pressure range                            | -1.03...8.96 bar                       |
|                                           | -15...130 psi                          |
|                                           | -0.1...0.9 MPa                         |
| Admissible overpressure                   | ≤ 30 bar                               |
| Burst pressure                            | ≥ 60 bar                               |
| Response time                             | < 2 ms, typ. 1 ms                      |
| Long-term stability                       | 0.25 % FS, according to IEC EN 60770-1 |
| <b>Power supply</b>                       |                                        |
| Operating voltage $U_B$                   | 12...33 VDC                            |
| Current consumption                       | ≤ 7 mA                                 |
| Short-circuit/reverse polarity protection | yes / yes                              |
| Protection class                          | IP65                                   |
| Insulation class                          | III                                    |
| Insulation voltage                        | 750 VDC                                |
| <b>Outputs</b>                            |                                        |
| Output 1                                  | Analog output                          |
| Output function                           | Analog output voltage                  |
| <b>Analog output</b>                      |                                        |
| Voltage output                            | 0...10 V                               |
| Load                                      | ≤ 100 nF / >10 kΩ                      |
| Resolution                                | <± 0.1 % FS                            |
| Accuracy LHR                              | ±0.3 % FS (typical; max. ±0.5 % FS)    |

## Technical data

|                                                |                                                                                                                                     |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Temperature behaviour                          |                                                                                                                                     |
| Medium temperature                             | -40...+135 °C                                                                                                                       |
| Temperature coefficient                        | ± 0.2 % of full scale/10 K                                                                                                          |
| Environmental conditions                       |                                                                                                                                     |
| Ambient temperature                            | -30...+85 °C                                                                                                                        |
| Storage temperature                            | -50...+100 °C                                                                                                                       |
| Vibration resistance                           | 20 g, 15...2000 Hz, 15...25 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6 |
| Shock resistance                               | 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27                    |
| Mechanical data                                |                                                                                                                                     |
| Housing material                               | Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0                                                         |
| Pressure connection material                   | Stainless steel 1.4404 (AISI 316L)                                                                                                  |
| Material pressure transducer                   | Stainless steel 1.4016 (AISI 430)                                                                                                   |
| Process connection                             | 7/16"-20 UNF male thread                                                                                                            |
| Wrench size pressure connection / coupling nut | 24                                                                                                                                  |
| Electrical connection                          | Connector, DIN EN 175301-803 Form A                                                                                                 |
| Max. tightening torque of housing nut          | 20 Nm                                                                                                                               |
| Reference conditions acc. to IEC 61298-1       |                                                                                                                                     |
| Temperature                                    | 15...+25 °C                                                                                                                         |
| Atmospheric pressure                           | 860...1060 hPa abs.                                                                                                                 |
| Humidity                                       | 45...75 % rel.                                                                                                                      |
| Auxiliary power                                | 24 VDC                                                                                                                              |
| Tests/approvals                                |                                                                                                                                     |
| Approvals                                      | cULus                                                                                                                               |
| UL registration number                         | E302799                                                                                                                             |
| MTTF                                           | 1238 years acc. to SN 29500 (Ed. 99) 40 °C                                                                                          |
| Included in delivery                           | FKM O-ring special (1 pc)                                                                                                           |

Accessories

| Dimension drawing                                                                 | Type                     | ID      |                                                                                                                                   |
|-----------------------------------------------------------------------------------|--------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------|
|  | VAS04-K81E-0.6-RSC5T/TXL | 6606726 | Extension cable, valve connector, A type to M12 male connector, straight, 5-pin; cable length: 0.6 m, jacket material: PUR, black |