

AIR PRESSURE

Baro Transmitter

Part number: 3.1157.10.xxx

- Scalable
 - measuring range
 - Analogue output

- Configurable
 - mean value calculation
 - heating control,
 - energy saving mode,
 - baud rate



The baro transmitter measures the absolute air pressure of the atmosphere at the site. It is designed for application in the field of environmental protection, where high accuracy, quick responding behaviour, long-term stability and reliability are required.

The instrument is suited for in- and outdoor application. A tempered piezo-ceramic sensor for absolute pressure is used, which is characterized by thermal and mechanical stability.

The electric connection is done via an 8-pole terminal strip and a special screwed cable gland with smoothing function for air pressure.

The following outputs are available:

- 1 x serial interface
- 1 x frequency output
- 1 x analogue output (U/I)

Specification

Part number: 3.1157.10.xxx

Air pressure	
Measuring range	260 ... 1260 hPa for RS485 output 260 ... 1260 hPa for frequency output for analogue output see models
Accuracy	with heating ± 0,25 hPa @ -40 ... +65 °C @ 800 ... 1100 hPa ± 0,50 hPa @ -40 ... +65 °C @ 600 ... 800 hPa without heating ± 1 hPa @ -40 ... +65 °C @ 600 ... 1100 hPa
Long-term stability	± 0.1 hPa / Year
Data output digital	
Output type	RS485 and Impulse output
Operating voltage	
Electronic	5 ... 24 V DC (for digital outputs only) otherwise 12 ... 24 V DC
Current consumption	10 mA max. @ 12 V

Heating	12 ... 24 V DC, max. 115 mA @ 12 V
General	
Ambient temp.	-40 ... +65 °C
Electr. connection	terminal strip
Dimension	110 x 82 x 57 mm
Weight	0.15 kg

Versions

As per 3.1157.10.xxx, but:

Product number 3.1157.10.000

Air pressure	
Electr. output	0 ... 5 V -> 800 ... 1060 hPa

Product number 3.1157.10.040

Air pressure	
Electr. output	0 ... 20 mA -> 600 ... 1060 hPa

Product number 3.1157.10.041

Air pressure	
Electr. output	4 ... 20 mA -> 600 ... 1060 hPa

Product number 3.1157.10.061

Air pressure	
Electr. output	0 ... 10 V -> 600 ... 1060 hPa

Product number 3.1157.10.140

Air pressure	
Electr. output	0 ... 20 mA -> 800 ... 1060 hPa

Product number 3.1157.10.141



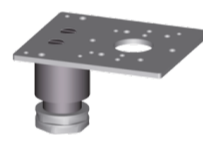
Air pressure	
Electr. output	4 ... 20 mA -> 800 ... 1060 hPa

Product number 3.1157.10.161

Air pressure	
Electr. output	0 ... 10 V -> 800 ... 1060 hPa

Accessories

Product	Product name	Brief description
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	Traverse for Wind Transmitters Compact 4.3171.3x.000	<p>For mounting the wind transmitter and wind direction transmitter jointly onto a mast.</p> <table border="1"> <tr> <td colspan="2">Material</td> </tr> <tr> <td>Traverse</td> <td>aluminium (AlMgSi0.5)</td> </tr> <tr> <td>Gripping clamb</td> <td>stainless steel</td> </tr> <tr> <td colspan="2">General</td> </tr> <tr> <td>Sensor distance horizontal</td> <td>0.8 m</td> </tr> <tr> <td>Weight</td> <td>0.35 kg</td> </tr> <tr> <td>Fixing boring</td> <td>hole Ø 29 mm</td> </tr> </table>	Material		Traverse	aluminium (AlMgSi0.5)	Gripping clamb	stainless steel	General		Sensor distance horizontal	0.8 m	Weight	0.35 kg	Fixing boring	hole Ø 29 mm
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	Traverse short for Wind Transmitters Compact 4.3171.4x.000	<p>For mounting one wind transmitter or wind direction transmitter at a mast.</p> <table border="1"> <tr> <td colspan="2">Material</td> </tr> <tr> <td>Traverse</td> <td>aluminium (AlMgSi0.5)</td> </tr> <tr> <td>Gripping clamb</td> <td>stainless steel</td> </tr> <tr> <td colspan="2">General</td> </tr> <tr> <td>Sensor distance horizontal</td> <td>0.4 m</td> </tr> <tr> <td>Weight</td> <td>0.3 kg</td> </tr> <tr> <td>Fixing boring</td> <td>hole Ø 29 mm</td> </tr> </table>	Material		Traverse	aluminium (AlMgSi0.5)	Gripping clamb	stainless steel	General		Sensor distance horizontal	0.4 m	Weight	0.3 kg	Fixing boring	hole Ø 29 mm
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	Adapter Compact 506345	<p>The adapter serves for mounting a radiation transmitter, baro transmitter or brightness transmitter onto a traverse (4.3171.30.000, 4.3171.40.000) or holder (506 347).</p> <table border="1"> <tr> <td colspan="2">General</td> </tr> <tr> <td>Material</td> <td>Aluminium, anodized</td> </tr> <tr> <td>Dimension</td> <td>100 x 115 x 65 mm</td> </tr> <tr> <td>Weight</td> <td>0.5 kg</td> </tr> </table>	General		Material	Aluminium, anodized	Dimension	100 x 115 x 65 mm	Weight	0.5 kg						
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