



## Technical Data Sheet

**AP65.400**

**AP80.250**

**Atmospheric Pressure**



**ProfEC Ventus GmbH**  
closer, committed, competitive

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## High Precision Barometric Pressure Sensors

The AP65 and AP80 barometers from ProfEC Ventus GmbH are designed for accurate and reliable atmospheric pressure measurements across various applications.

With advanced technology and robust construction, these barometers are ideal for both environmental monitoring and industrial applications.

### Features

- High Accuracy of  $\pm 0.5\%$  FS (at 25°C) for precise barometric pressure readings
- Piezo-resistive principle. Calibrated using mixed signal ASSP, no potentiometer.
- Durable Construction (IP67): Wetted parts and body made from stainless steel for high media resistance, no internal seals. Oil-filled technology inside.
- Vacuum-tight and elastomer-free.
- Fast Response Time: Typical response time of 1 ms, ideal for dynamic pressure changes.
- Long-Term Stability: Less than 0.1% FS per year in reference conditions.
- Operating Temperature Range: -40°C to +105°C, suitable for extreme environments.

## Technical Specifications

### Measurement Performance

Parameter	AP65.400	AP80.250
Pressure Range	650 to 1050 mbar	800 to 1050 mbar
Accuracy	$\pm 0.5\%$ FS	
Response Time	1 ms	
Long-Term Stability	$\leq 0.1\%$ FS/year	
Operating Temperature	-40°C to +105°C	
Storage Temperature	-40°C to +125°C	
Shock Resistance	IEC 60068-2-31	
Vibration Resistance	20 g (IEC 60068-2-6)	
Protection Class	IP67	

### Output and Electrical Specifications

Parameter	AP65.400	AP80.250
Measurement Range	600 hPa...1050 hPa	800 hPa...1050 hPa
Output Signal	0-5 V	
Supply Voltage	8-32 VDC	
Supply Current	< 10 mA	
Load Resistance	$\geq 2$ kOhm	
Isolation Resistance	100 MOhm	
Over Pressure	10 bar	
Burst Pressure	40 bar	
Electrical Protection	Reverse polarity, short-circuit	
MTTFd Value	115 years	

### Mechanical Specifications

Material	AP65.400	AP80.250
Wetted Parts	Stainless Steel (316L)	
Body Material	Stainless Steel	
Weight	~100 g	
Pressure Port	M10x1 Form A, DIN 3852-1	
Process Connections	Binder M12x1 (S763), A-coded	

## Applications

- Renewable Energy
- Meteorology and Weather Stations
- Environmental Monitoring
- Agricultural Technology
- Hydrology and Water Management

### Ordering Information

For detailed ordering information of your AP65 or AP80 barometer, please contact our sales team at [sales@profec-ventus.com](mailto:sales@profec-ventus.com) or visit our shop at <https://shop.profec-ventus.com>.

### ProfEC Ventus GmbH

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