

SMC-630

Barometric Pressure Sensor



The SMC-630 series is a high performance atmospheric barometric pressure device. It is designed for high demanding applications as aviation and professional meteorology, where high reliability and accurate absolute pressure readings is desired.

Function

The SMC-630 uses quartz pressure elements which produces high accurate readings with an excellent long-term stability. The pressure range is 800 hPa to 1100 hPa with a total accuracy of 0.3 hPa.

Environmental

The SMC-630 is delivered in a corrosive resistant hard anodized aluminium casing able to withstand harsh environments. The pressure sensor is IP66 rated.

Calibration

The SMC pressure sensor has been calibrated for temperature variation which removes the temperature coefficient error in the output. SMC uses a multiple point calibration to cover the specified pressure range.

Communication

The SMC-630 have RS232 and RS485 outputs and is transmitting its data in a standard ASCII string. The pressure string is easily integrated to dataloggers and display software on the market.

Key Features

- Single, SMC-631 or Dual Pressure Head, SMC-632
- Excellent Long term Stability
- 0.3 hPa Total Accuracy
- Serial NMEA Communication
- 2 years Warranty

About SMC

SMC is an ISO9001:2015 quality management certified company, manufacturing weather instruments, motion sensors and system integration software packages, such as Helideck Monitoring and Motion Monitoring systems, for the global marine industry.

Specification SMC-630

Performance

Total accuracy 0.3 hPa
Range 800-1100 hPa
Long Term stability 0.1 hPa per Year

Communication

Com1: RS232
Com2: RS485

SMC Configuration software included
User selectable Output Protocols

Physical

Housing Material Hard Anodized Aluminium
Dimensions (W x D x H) 135 x 60 x 83mm excl connector
Weight 1 kg

Pressure fitting: Barbed fitting for 4 mm Inner Diameter hose
Cable connection 7-13mm cable diameter
Electrical connection: Terminal block

Environmental

Operating Temperature -40° to +60° Celsius
MTBF (computed) 50 000 hours
IP66

Versions

SMC-631 Single pressure head version
SMC-632 Dual pressure head version for pressure verification

Electrical

Power requirements 12 - 30 VDC; 0.7 W
Standard Complies with the IEC 60945

Warranty & Support

2-year Limited Hardware & Software Warranty
Free Technical & Hardware support

