

# 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 1/8 inch 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

