



👐 WellSens Gen II

Description

The WellSens Gen II is the next generation of surface controllers. The WellSens Gen II is a robust and reliable multi-channel signal conditioner. It is compatible with the harsh environment interfero- metric fiber optic pressure and temperature sensor, the OPP-W. The WellSens Gen II can operate in a wide range of ambient temperatures from-20°C to +60 °C.

The wide operating temperature and low power con- sumption, make it ideal for remote applications oper- ating on solar panels or generators. The modular DIN rail design allows for seamless expansion with growing requirements. The high precision, small foot print, fast sampling rates and ease of use make it the solution of choice for oil field or industrial process applications.

At the core of the WellSens is the White Light Polarization Interferometry (WLPI) proprietary technology[†]. This technology provides a means for making accurate and absolute measurements of the path length difference, which varies as a function of the parameters of interest (pressure or temperature), of any type of interferometric fiber optic sensors.

The WellSens Gen II is capable of a variety of interface and communications protocols which provides easy integration to DCS systems via RS-232, RS-485, TCP/IP on ModBus or SCPI. It is also offered with an optional LCD display, internal data storage, and can be used independently for direct automation control with programmable alarms, relay logic, and standard ana- log voltage and currents I/O.

The WellSens Gen II is a complete data acquisition and processing solution for any application monitoring temperature, pressure, strain, or displacement

Use with WLPI fiber optic pressure, temperature, strain & displacement sensors

Key features

- High Linearity, precision, with fast sample rates.
- Expandable up to 128 Channels.
- Modular DIN rail design.
- Flexible -Supports current & future WPLI products (P/T, Displacement, and Strain sensors).
- Wide operating temperature range.
- Low Power <12W for 2 channel (no display). Ideal for remote applications utilizing solar panel
- Supports a variety of interface and communica tion protocols including RS485, TCP/IP, & ModBus.
- Application Control programmable alarms and I/O options.





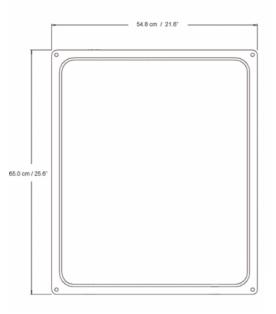
† US patent 7,259,862. Patents pending in other countries.



- Downhole oil & gas pressure & temperature monitoring in extreme harsh environments
- High temperature environments
- Ideal for remote monitoring
- Industrial process-control and monitoring applications
- Hazardous and strong EMI/RFI/MRI environments



Dimensions in mm





Specifications

Compatibility 0	IPP-W, OTP-W and OEP fiber optic sensors
Full Scale 30	0 000 nm (path length difference)
Resolution ±	: 0.003 % of F.S. (no averaging)
Precision ±	: 0.01 % of F.S. @ ±3.3 sigma limit (99.9 % confidence level)
Sampling rate U	Jp to 20 Hz
Output interface R	S-485, RS-232 and Ethernet (TCP/IP)
Communication protocol	Modbus and SCPI
I/O and control option V	/arious analog and digital outputs (4-20 mA, \pm 10 V, etc.)
Data storage U	Jp to 8 Gb (in option)
Display L	_CD screen display (in option)
Input power 2	24 VDC or 85-264 VAC
Consumption 1	10 W + 1 W x number of channels (Ex.: 16-CH unit = 26 W)
Storage temperature	- 40 °C to 70 °C
Operating temperature	- 20 °C to 60 °C (-40 °C option available on request)
Humidity 9	95 % non condensing

All specifications are subject to change without prior notification

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification. Althen – Your expert partner in Sensors & Controls | althensensors.com

Althen stands for pioneering measurement and custom sensor solutions. In addition we offer services such as calibration, design & engineering, training and renting of measurement equipment.

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