

Short Stack: Two-Channel Cellular Tank Monitor

LEVEL DEVIL by SensorTech

Wireless Remote Monitoring Transmitter Unit

Model 9175



The Model 9230 Short Stack is a modern, low-cost, wireless remote monitoring transmitter unit ("RTU") for monitoring fluid tank levels, and other sensors, via the cellular telecom network. The Model 9230's remote-monitoring features include:

- Multiple Scheduled Automatic Reports
- Multiple High/Low-Level Alarm Reports
- Sudden-Change Reporting (Load Detection)
- Ambient Temperature Reporting
- Accommodation for Two Industrial Sensors
- Works on any cellular telecom network

Any common industrial sensor (dry-contact switch, zero-to-5-volt, 4-20 mA, Cyl-Tel, or Tank-Tel) may be connected to the 9230. SensorTech offers a large assortment of sensors for the 9230, including tank sensors.

In normal use, the 9230 monitors parameter(s) of the user's choice, and transmits the data, through a cellular tower, to the Internet, for user monitoring via computer, tablet, or any phone.

The monitoring of the measured parameter may be used to trigger low- or high-limit notifications, sudden parameter changes (load detection), and a new feature called "pseudo real time reporting" (PRT).

With PRT, the unit transmits to the SensorTech Data Center every time the measured parameter changes more than a user-specified percent from the last time it sent a report. If the change-reporting threshold is set to "5% of full-scale," then a report will be sent, via the Internet, each time the level changes more than 5%. PRT can post multiple reports several times a day, depending upon activity.

Once data is received by the SensorTech Data Center, other text notifications may be sent from the Data Center to: cell phone, faxes, emails, or telephone voice alerts. Many notifications, to many people, can be generated from a single data report initiated by the 9230.

SensorTech also offers custom interfaces between SensorTech's Data Center and the client's server. Customized message formats (HTTP, FTP, XML and others) may be configured for your needs.

SENSOR INPUTS	Any combination of one or two 0-5 volt, 1-5 volt, 4-20 ma, Cyl-Tel or Tank-Tel sensor, and/or dry contact switch (plus onboard temperature sensor)
POWER	Battery, rechargeable (with AC wall transformer or solar panel), or replaceable battery.
TEMPERATURE RANGE	-40°F to 140°F (-40°C to 60°C)
SENSOR INTERFACE	3 screw terminals per sensor, inside unit; wired through unit bottom and/or side.



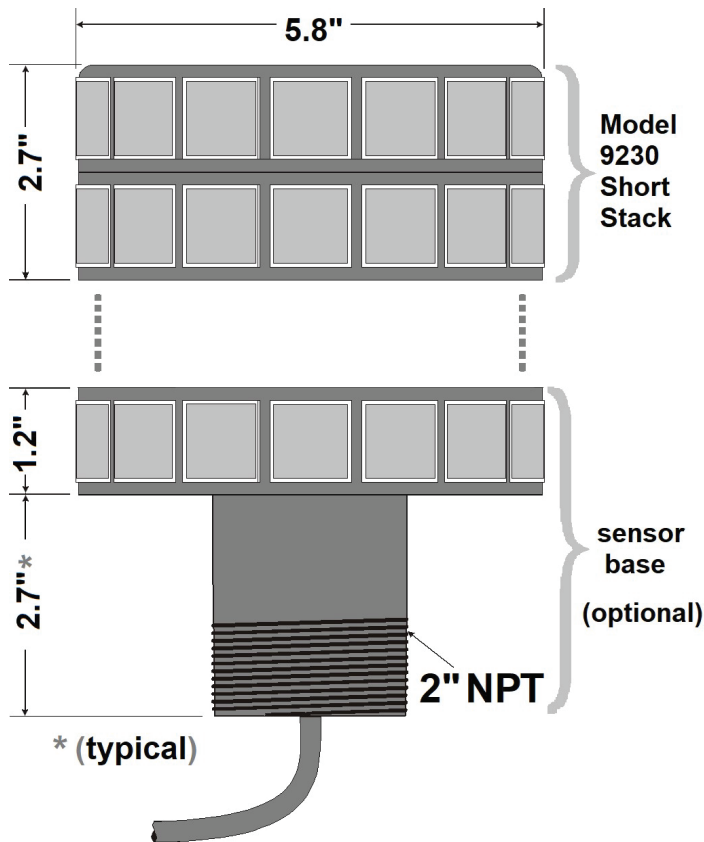
Contact Us

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The 9230 is a rugged, reliable, remote transmit unit (RTU), capable of sending a measured signal (such as a switch-position change, pressure reading, object position, or tank liquid level) to the end user. The RTU is housed in a compact plastic case that fits where other RTUs cannot.



INTERNAL MONITORING SENSORS	Temperature, and (optional) GPS position.
CASE SIZE	5.8 inch diam. x 2.7 inches (plus optional sensor base)
CASE MATERIAL	PVC, UV stabilized
ALARMS	10 programmable set points: Low or high limits
LARGE-PERCENT-CHANGE (LOAD) DETECTION (USER-DEFINED)	Programmable auto-send upon a user-defined percent change ("load detection")
PRT- PSEUDO REAL TIME REPORTING	Programmable. 2% minimum
SENSOR EXCITATION	5 Volts
RESOLUTION	4095 counts (12-bits)
LED INDICATORS	Red, Green and Yellow LEDs on PCB, to signal unit status, White LED for radio status.
CONTROL SWITCH	1 Push-button switch on PCB
CELLULAR MODE	4G/LTE Cat M1
WARRANTY	1 year. See Sensortech standard warranty statement
NOTES: Cel-Tel & Tank-Tel are registered trade names of Chart/MVE.	
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE	

- Secure web screens visible by authorized client from any computer or smart phone.
- Client can allow selective password access by others.
- Smart phone app available.
- Automated voice phone calls.
- High/Low Alarms/Indications.
- Sudden-Change Notification.
- History data & graphs.
- Sort & Filter data by Item, Date, Status, etc.
- User-defined configuration & settings.



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