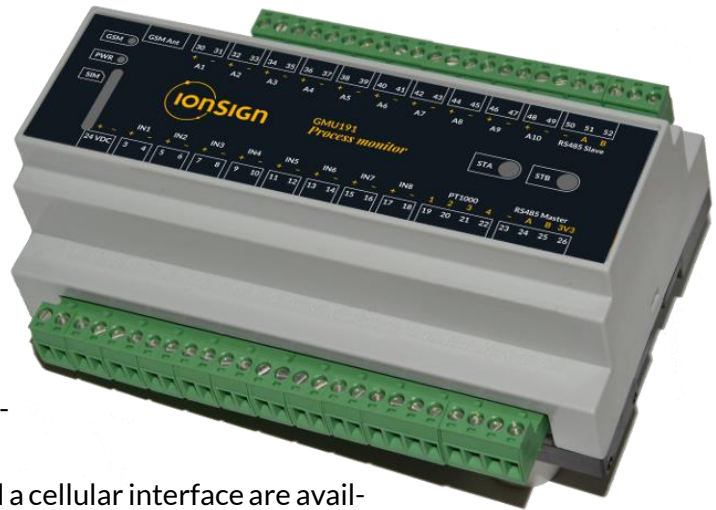# ionSign

Smart Connections

ionSign GMU191

The GMU191 is a powerful and versatile data acquisition device for remote monitoring and industrial internet (IoT) applications. It is very easy to install and use.

The GMU191 collects several types of measurement data, both through its own inputs and an integrated Modbus fieldbus interface. Data is collected and transferred spontaneously, without the need of a server or user induced query.

An RS485 connection with Modbus protocol and a cellular interface are available for transmitting the data to a server or an automation system. The unit may serve as a fieldbus master unit for other fieldbus data acquisition devices, utilizing the data transfer capability of the master unit.

The logging interval is defined by the user (1 min and up). The GMU191 secures time series continuity in case of transfer network failures by systematically buffering the collected data. It also communicates any measurement values off the defined operating range by SMS messages.

Technical specifications

- Integrated 3G GSM module
- 8 open collector inputs for pulse counting or relay inputs for digital switches
- 10 current (4 – 20 mA) or voltage (2 – 10V) signal inputs
- PT1000 temperature sensor input
- 2 RS485 interfaces (Modbus master & slave)
- Data buffering for 2 000 measurements (=all inputs and 250 Modbus registers)
- 3 weeks buffering at 15 min logging interval

- Operating voltage 12…24 VDC
- Current consumption 100mA (400mA peak)
- Operating temperature -25°C … +50°C
- Storage temperature -30°C … +85°C
- Operating humidity 5%...95%, non-condensing
- 9 module wide DIN rail enclosure
- (WxHxD 156x90x52mm)
- SMA connector for external antenna
- IP20

Mobile user interface

- Easy to control with mobile SMS interface
- Standard HTTP reporting protocol allows an easy server application development

- Easy to setup with only one SMS
- SMS alarms of exceeding threshold values defined by the user

Extra features

- Available with enclosure for higher IP class
- Available with LAN interface instead of GSM
- Available without data transfer capability for cascading purposes