ionSign

Smart Connections

LoRa

Gluon GMU691

Gluon GMU691 is a versatile measurement signal aggregator for remote monitoring and industrial internet (IoT) applications. It is wired to local analogue, digital and Modbus signals and communicates collected data autonomously to a receiving gateway or server via a LoRa RF connection.

The GMU691 connects with ease to several types of signal outputs, through its on-board analogue and digital inputs and an integrated Modbus fieldbus interface. Data is collected and transferred spontaneously, without the need of a server or user induced query. Extensive local buffering keeps data secured for temporary RF connectivity failures.

The unit may serve as a fieldbus master unit for other fieldbus data acquisition devices, utilizing the master unit connectivity. Connected Modbus devices are configured locally at the GMU691.

Technical specifications

- 8 open collector inputs for pulse counting or relay inputs for digital switches
- 10 analogue signal inputs (4 – 20 mA)
- PT1000 temperature sensor input
- 2 RS485 interfaces (Modbus master & slave)
- Data buffering for 13 000 measurements (=all inputs and 250 Modbus registers)
- 135 days buffering at 15 min logging interval
- Range in kilometres, strongly depending on communication speed
- Operating voltage 12...24 VDC
- Current consumption 100 mA
- 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)
- IP20

RF Module

- LoRa RF wireless technology
- Bespoke protocol, LoRaWAN not supported

User interface

- Local configuration via RS485 connection
- After setup, data streams without queries

Extra features

- Available with enclosure for higher IP class
- Available with GPRS/3G or TCP-IP/LAN connectivity instead of LoRa
- Available without connectivity for cascading more I/Os to parent gateway via Modbus
- Compatible with ionSign's other Gluon LoRa Smart Gateway and Process Monitor products

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