ionSign – GLUON

Smart Data Capture for Commercial IoT Solutions

The GLUON concept is designed to capture data from commercial and industrial buildings, equipment and processes. It supports a wide range of input signals and shakes hands with existing control and automation systems. It is autonomous, dependable and supports integration to several IoT platforms. Setting up GLUON is simple and quick.

ionSign Gluon is a family of data capturing devices with analog, digital, and Modbus signal support, and 3G, TCP/IP and LoRa data connections. With Gluon devices you create stand-alone data harvesting systems, or integrate to existing measurement, automation and management systems. The acquired data may be served to bespoke systems, ionSign's cloud services or to commercial cloud and IoT platform services, like Microsoft Azure, Amazon Web Services or IBM Watson IoT.

Unit Processes

Remote & Moving Locations

Standalone Equipment

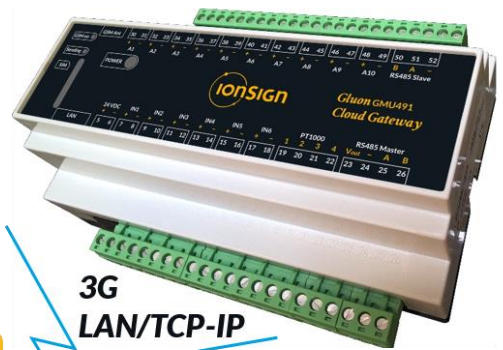Distributed Equipment

Unmanned Facilities

Wired & LoRa RF

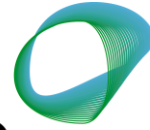3G LAN/TCP-IP

Icons by Freepik from Flaticon.com

Commercial & Bespoke Cloud Services & Platforms

ionSign

Smart Connections

Case Enersize Oy

Enersize

Enersize provides a compressed air system (CAS) energy efficiency optimisation service. Enersize's customer, a global Chinese LCD panel manufacturer, used 47 GWh annually for compressed air production. This had to be cut down to ramp up cost competitiveness and slash carbon footprint. With the continuous data from three Gluon GMU191 units, Enersize planned and employed the optimisation actions. Within 5 months of kick-off, Enersize had delivered energy savings of 15%. Further measures are already planned to drive energy savings to 29% over the next 12 months.

Cloudify Anything to Anywhere

Gluon devices support a multitude of measurement signals, enabling also *legacy systems* to be digitalised. You're also free to choose any platform to receive the data, bespoke or commercial. When set up, the **Gluon** system keeps on providing data, until asked to stop. No user action is required even in case of transfer network or power failures, the system recovers spontaneously.

What makes GLUON Different?

- **Fast & easy to deploy**
  The simplest configuration
  Starts ticking right away, stops only at your command

- **Data is always complete**
  Recovers from transfer & power network failures
  Sufficient non-volatile buffer built on hardware

- ***Scales up & scales down***
  Simple and affordable for simple needs
  Scalable and reliable for complex needs

- **Platform agnostic, truly**
  Digitalise modern and legacy systems
  Use your platform of choice, bespoke or commercial

Wired and Wireless Connectivity

Local data connections can be hard wired or LoRa RF on ionSign's gateways and bridges. Internet connection has the options of 3G, TCP-IP/LAN and commercial LoRa networks. Local LoRa connections can reduce both time and cost of deployment considerably.

Modbus | Pulse | 4-20mA 0-10V Pt1000 Digital | *Gluon* GMU691 LoRa Gateway

Modbus | *Gluon* GMU631 LoRa Gateway

Gluon GMU632 LoRa Bridge | RS485 | *Gluon* GMU491 Cloud Gateway | 4-20mA 0-10V Pt1000 Digital | Pulse | Modbus

LAN/TCP-IP 2G/3G LoRa