



Smart Connections

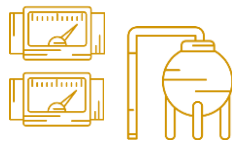
ionSign – GLUON

Smart Data Capture for Commercial IoT Solutions

The **GLUON** concept is designed to capture data from commercial and industrial 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 and TCP/IP 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 or Amazon Web Services.

Unit Processes



Remote & Moving Locations



Standalone Equipment



Distributed Equipment



Unmanned Facilities



Icons by Freepik from Flaticon.com



LAN/TCP-IP
3G Mobile Data



Microsoft Azure

Bespoke & Commercial
Cloud Services & Platforms



Smart Connections



Enersize

Read more: bit.ly/enersize

Case Enersize Oy

Enersize provides a compressed air system (CAS) energy efficiency optimisation service. One of their customers, 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 carbon footprint. With the continuous data from three Gluon GMU191 units, Enersize planned and employed the optimisation measures. 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.

The Flexible Solution

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 or power network failures, the system recovers spontaneously.

What makes GLUON Different?

- **Fast & easy to install and just start using**
The simplest configuration
Starts ticking right away, stops only at your command
- **Data is never lost, time series is always complete**
Recovers from transfer & power network failures
Sufficient local buffer built on hardware
- **Makes sense for a few sensors or thousands of them**
Simple and affordable for simple needs
Scalable and reliable for complex needs
- **Wide support for sensor signals and IoT platforms**
Digitalise even your legacy systems
Use your platform of choice, bespoke or commercial

| | | | |
|----------------|-----------------------|----------------|-------------------------|
| Pt1000 | Analog inputs | Modbus | Microsoft Azure |
| Digital inputs | Microcontroller | Modbus Master | |
| debian | Linux Debian Computer | Modbus Slave | |
| | | LAN TCP/IP | |
| | | 3G Mobile data | |