AutoLog® GSM RTU for cathodic protection
AutoLog®
Applications

FF-Automation Oy

Street light control
Cathodic protection

Pump control
Water treatment
Tanks & storages

Production facilities
Real estate objects

Pipelines & valves
Oilwells and pumps
Cathodic protection scheme

Cathodic protection rectifier, powered from solar panel is applying potentials to the electrodes and gets current and voltage measurements.

AutoLog® GSM RTU connected to the rectifier will bring those measurements to GSM network and Internet.

Measurements may be taken by simple sensors with for example 4..20 mA, 0..+5 VDC output signal or with ModBus sensors directly connected to GSM PLC.

Using SMS or GPRS connection measurement results may be forwarded directly to mobile phone, e-mail or higher level of data acquisition like SCADA or ControlMan.
AutoLog® integrated GSM RTU

AutoLog® may be integrated inside existing Cathodic Protection rectifiers, can read measurements and apply controls.

GSM Gateway PLC is able to poll ModBus devices, send data through GSM / GPRS network and process measurements according its internal application program.
AutoLog® ControlMan Cathodic protection

- Cathodic Protection rectifier
- GSM / GPRS network
- ControlMan secured Internet server
- Internet / Intranet network
- Computer with Internet access and web-browser
- AutoLog® GSM RTU

Example installation view
Internet-based ControlMan software provide access to dynamic maps, trends, graphs, process illustrations, alarm views from any computer with Internet access.

Alarms may be forwarded directly to dedicated mobile phone or e-mail.
AutoLog® Modbus-GSM Gateway connects Modbus devices to GSM network. It has all the same features as other AutoLog GSM-RTU devices, but without I/O. It can be used also to read / write data with AutoLog Wireless Wi-Fi Sensors and send this data to GSM / Modbus / Ethernet network.

AutoLog® Modbus-GSM Gateway reads/writes data from Field device(s) using Modbus RTU protocol. This data can be logged into Modbus-GSM Gateway’s memory.

AutoLog® Modbus-GSM Gateway uses GSM/GPRS network for bidirectional communication with SCADA systems. FF-Automation’s AutoLog ControlMan SCADA can be used to view measurement trends, alarms, process pictures, reports etc. and to send controls, set points etc. Alarms can be forwarded to GSM phones.

AutoLog® Modbus-GSM Gateway is a programmable device as all AutoLog GSM-RTUs. It can make intelligent Clock/Calendar or events based controls, calculations etc. It is remotely programmable.

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Serial Port 1</strong></td>
<td>For Integrated GSM/GPRS modem (default) Modbus RTU master/slave (RS232), Optional 1: (RS485)</td>
</tr>
<tr>
<td><strong>Serial Port 2</strong></td>
<td>Optional 2: Modbus TCP (ETH) master/slave Optional 3: Wireless Sensor Master Module (ALWSN24-PiM-MM)</td>
</tr>
<tr>
<td><strong>GSM communication</strong></td>
<td>SMS and GPRS / FTP</td>
</tr>
<tr>
<td><strong>I2C port</strong></td>
<td>1 (HMI, etc.)</td>
</tr>
<tr>
<td><strong>Communication</strong></td>
<td>SMS, GPRS, Modbus RTU M/S, Modbus TCP M/S, Wireless Sensor</td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
<td>-40..+80 °C</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-30°C…+65°C</td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
<td>95%, non-condensing</td>
</tr>
<tr>
<td><strong>Enclosure</strong></td>
<td>IP20 / optional IP65 etc.</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>170 x 170 x 80 mm (W x H x D)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>About 0.2 kg</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>DIN rail</td>
</tr>
</tbody>
</table>
FF-Automation has a worldwide network of AutoLog system integrators and distributors. We are also constantly seeking more new co-operation partners, representatives and software partners.
For more information about FF-Automation and the AutoLog® range of control products and automation solutions, please open www.ff-automation.com

FF-AUTOMATION OY

Head Office:
Eräkuja 2, 01600 Vantaa, Finland
tel: +358 10 2190 500
fax: +358 3 5846 711
e-mail: info@ff-automation.com

Factory:
Valkeakoski, Finland