

SmartLine

G2RCU-22



Key features

The G2RCU-22 remote control unit provides over-the-air type of remote control and alarming functions for industrial applications. It is easy to install, set and customize its functions. It can send status and alarm messages in the form of e-mails and SMS messages and operate as a gateway for the SiERA web-based remote control operation

The complete TCP/IP stack and the possibility to update the application over-the-air are the tools to handle and maintain complex remote control systems. With several communication possibilities G2RCU can be connected to various devices. The integrated powerful ARM9 computing platform allows to design-in extensive embedded software.

Target applications

REMOTE BUILDING MANAGEMENT APPLICATIONS

REMOTE HVAC SYSTEMS

REMOTE SITE DATA ACQUISITION & ELABORATION

REMOTE ALARM SYSTEMS

GSM/GPRS MODEM

OVER-THE-AIR APPLICATION UPDATE

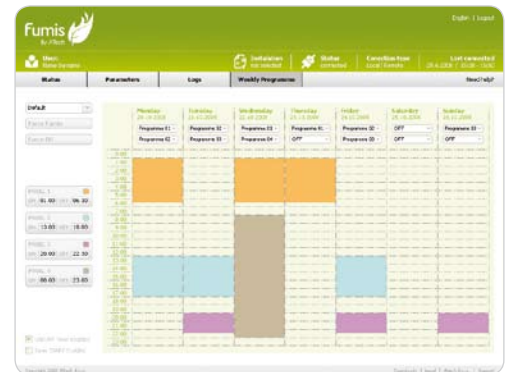
G2RCU-22 (STANDARD CONFIGURATION)

GSM frequencies	Quad band 900 / 1800 MHz & 850 / 1900 MHz
GPRS class	10
Power supply	nominal 24V DC, operating range 8V DC to 35V DC
Temperature:	-20°C to +55°C operating, -40°C to +85°C operating with limited functionality, -40°C to +85°C storage
Humidity:	5% to 95% RH, non condensing
Digital inputs:	2 inputs, active voltage range 8V DC to 35V DC, galvanic isolation
Relay outputs:	2 outputs, operating voltage 8V AC/DC to 35V AC/DC, max. current 3A, normally open contact, galvanic isolation
Communication interfaces:	1 UART, 5V logic levels for local console 1 RS485/RS232/UART/other (depending on version), speed up to 115,2kb/s, galvanic isolation
Computing platform	ARM9
Compliance	EN 60950-1, ETSI EN 301 489-1, ETSI EN 301 489-7
Antenna	SMA whip antenna (STANDARD); optional self-adhesive antenna with 5m cable (OPTIONAL)
Housing	DIN rail mount
Dimensions	23mm x 105mm x 117mm, without antenna



Example of application created on SiERA platform (biomass heating system remote control)

NOTE: SiERA is not part of the G2RCU. For further information on developing applications with SiERA technology please contact ATech personnel.



SiERA – the platform for WEB based remote monitoring & control

SiERA is ATech's newest technology that represents the new generation of industrial remote control. SiERA is a WEB-based remote control application through which users can access, monitor and control remotely installed industrial systems, collect and transfer data to information systems and organise advanced maintenance.

SiERA can be adapted and customized for use in various applications. The first application is for remote control of industrial heating systems, where SiERA technology was used to implement advanced maintenance (including parametrisation and re-programming), energy consumption metering, remote e-mail and mobile phone alarming. For mobile phone connectivity and remote control ATech's G2RCU-22 GSM/GPRS remote control unit was used as a gateway.

With SiERA a secure, robust and easy to use remote control system is available from virtually everywhere.

Functions and applications that can be realised with SiERA technology:

- Remote Control (On/ Off/ Set-Up/ Parametrisation)
- Remote Data-Logging And Monitoring
- Remote Installation Scan
- Automated Maintenance
- Remote Energy Consumption Metering & Optimisation
- Remote Alarming
- Mobile Phone Alarming
- Remote Monitoring & Control
- Remote Sw Download & Re-Programming

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