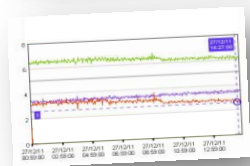
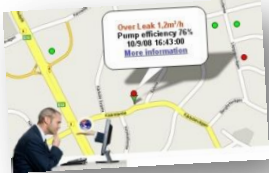




A U T O L O G ® G S M - 2 0

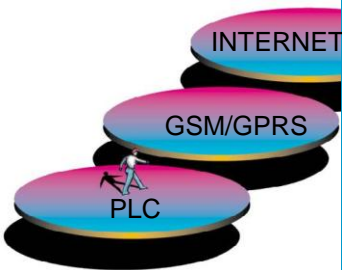
S O P H I S T I C A T E D ® A U T O M A T I O N

- ControlMan UI



- 0-8 Analog inputs
- 2 Analog outputs
- 8 Digital inputs
- 8 Digital outputs
- + Expansion cards

- SMS / GPRS
- Data logging
- PLC program
- Modbus M/S

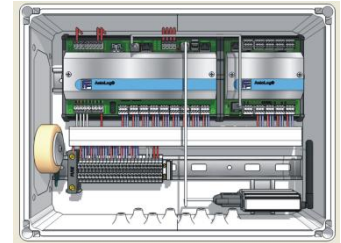


**Wireless
M2M**

Introduction

GSM-20 PLC is especially designed for GSM communication. It has build-in GSM/ GPRS modem and driver. It is very compact and cost effective solution for remote monitoring and control.

GSM-20 can be programmed to fit 100% with your application needs. Special GSM functions allow you to create effective application. Easy maintenance with wireless programming through GSM network. GSM-20 has expandable I/O. GSM-20 needs external GSM modem.



GSM-20 Specifications

- **GSM/GPRS modem:** Needs external GSM modem (Needs to be ordered separately!)
- **I/O Expansion:** Supports I/O expansion cards, connected to I2C bus
- **Power supply:** 12-30VDC / 12-24VAC / 230VAC for Unit models
- **Serial ports:** Ser1: RS232 (for modem / programming), Ser2: RS232 (Optionally RS485, Modbus TCP or Wireless sensors)
- **Programming tool:** PC based AutoLog® GSMProgrammer.
- **Application Program memory:** 512 lines
- **PID:** 32 build-in PID controllers
- **Serial port connectivity:** GSM/SMS, GPRS/FTP, GSM/call, Modbus RTU Master/slave 300 -57600bps
- **Clock and calendar (RTC):** Build-in
- **Program memory:** Flash
- **Data memory:** RAM
- **Back-up battery for RAM and RTC:** Yes
- **Support for battery powering:** Yes
- **Support for wireless sensors:** Yes
- **HMI:** Optional HMI can be connected through I2C bus or Serial port. (2 x I2Cs)
- **SCADA:** AutoLog ControlMan or Indusoft Web Studio or database connection

Analog Inputs	0-8 input, 12 bit, (max. 72) Pt100 (-50..150°C / 0..500°C / -250..750°C), 0..5mA, 0..20mA, 4..20mA, KTY10 (-50..150°C), NTC (-5..50°C), 0..2V, 0..5V, 0..10V, -10..10V, RMS 40VAC/25VAC/ 0.25VAC, etc.
Analog Outputs	2 outputs, (max. 32) 0-5 / 0-10 V, 12 bit
Digital Inputs	8 inputs, (max. 72) 24VDC, max 8mA, opto-isolated, PNP
Digital Outputs	8 outputs, 24VDC, (max.72) max 2A, group max 4A, NPN

Storage temperature	-30 ~ 80 °C
Operating temperature	-20 ~ 55 °C
Relative humidity	95%, non-condensing
EMC	Immunity according to EN50082-2 & EN 50082-1 Emissions according to EN50081-1 & EN50081-2
Enclosure	IP20 / optional IP65 etc.
Dim. (W x H x D)	Case 220 x 125 x 65 mm
Weight	About 0.2 kg
Mounting	DIN rail

AutoLog® GSM-20



THE AUTOLOG® FAMILY
AUTOLOG®PLC AUTOLOG®GSM AUTOLOG®OEM
AUTOLOG®RTU AUTOLOG®TETRA AUTOLOG®HMI



A U T O L O G ® G S M - 2 0

Order Information:



AutoLog® I/O Expansion cards

- Max total I/O: 72AI / 34AO / 72DI / 72DO
- Isolation: Digital Inputs and Digital Outputs are galvanic isolated.

AutoLog® GSM-20

- Order code: 900755
- Power supply: 12-30VDC or 12-24VAC
- GSM modem is not included!
- Analog input modules needs to be ordered separately!



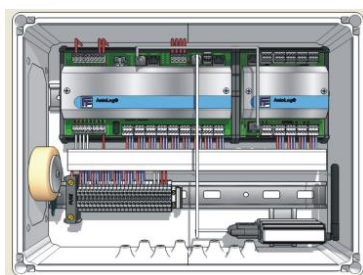
GSM Modem

- Order code: 900701
- Power supply: 12-30VDC

I/O EXPANSION CARDS (for GSM-20)		
Code	Designation	Description
900775	AL20 DI16	16 x Digital inputs, 24VDC, max. 8mA, potential free contact, PNP
900773	AL20 DI64	64 x Digital inputs, 24VDC, max. 8mA, potential free contact, PNP
900772	AL20 DO32	32 x Digital outputs, 24VDC, max. 1A, NPN
900765	AL20 RIO8	8 x Digital inputs, 24VDC, max. 8mA, potential free contact, PNP 8 x Relay outputs 24-230VAC, max. 3A
900770	AL20 RO16	16 x Relay outputs, 24-230VAC, max. 3A
900837	AL20 EXA 8/4*	8 x Analog inputs (plug in analog input modules are not included) 4 x Analog outputs

AutoLog® GSM-20 Custom Unit (parameters)

- I/O Expansion card(s) (max. total 72AI/34AO/72DI/72DO)
- Analog input modules (e.g. 4..20mA Isolated, Pt100, etc.)
- Power supply (e.g. 230VDC to 15VAC)
- Terminal blocks for I/O and power (e.g. Phoenix connectors)
- I/O to terminal block wirings
- Fuse for main power
- Antenna (type, Internal or external, cable length)
- Enclosure type, material, size, IP class, mounting, inlet (e.g. IP66 polycarbonate enclosure with FMC 35F multi-inlets, Size: 300 x 400 x 132 mm)
- HMI (type, mounting, HMI can be mounted e.g. to enclosure door)
- Application program (FF-Automation can do application programming according to specification or customer can do programming itself after education)
- ControlMan Setup (GSM-PLC can be added to ControlMan page)



Example of GSM-20 Custom Unit

SCADA interfaces:



AutoLog®
ControlMan

- GSM / SMS & GPRS / FTP



- GSM / SMS & GPRS / FTP

PostgreSQL



- GSM / SMS & GPRS / FTP



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