



OMC-2650 Programmable Data Logger & control unit

The OMC-2650 Data Logger / PLC, was specially designed for water management applications. This low power Data Logger / PLC can be provided with a program in order to control weirs, pumping stations and other objects used within water management environments. The OMC-2650 work in conjunction with I/O modules. Several kinds are available in order to create customized systems. This Data Logger can be used within an open telemetric system as well as within our software systems.



Features:

- Multifunctional Data Logger with PLC features
- Flexible and high speed communication through GSM, PSTN or ISDN
- Up to 100 input channels using the OMC-266x input modules
- Can be used within open telemetric systems
- Communication between stations possible
- Low power consumption for solar power supply
- Alarms available on all analogue and digital inputs, value to high, to low or system malfunctioning
- Easy programming of PLC part using programming language Forth
- Local readout of measured parameters



Small Weir



Weir

GENERAL

The programmable data capture and control unit OMC-2650 is a multi purpose data logger combined with PLC features. Using intelligent input modules the OMC-2650 is capable of handling nearly all-meteorological and hydrological sensors.

The unit can be deployed in a.o.:

- Water quantity systems
- Meteorological systems
- Hydrological systems
- Water sewage treatment
- Tank park automation
- Office environment monitoring

The low power consumption enables use on locations without main power. Therefore this unit is ideal to use in combination with a solar power system.

The programmable data capture and control unit will, on pre-set times, collect data from a field bus on which the input modules are connected. These modules convert all digital and analogue sensor signals into engineering units, which are offered, to the OMC-2650. For all available input and output modules see data sheet OMC-266x.

The PLC part can be programmed using the programming language Forth. For control functions the OMC-2650 is equipped with four digital and two analogue outputs. When these outputs are not sufficient additional output modules are available. Now a customized system can be used e.g. to control weirs, starting pumps etc. in water management systems.

The unit is provided with communication ports in order to connect a modem (GSM, PSTN or ISDN) Communication speed up to 38k4 bps. Data can be collected using these modems but they can also be used for communication to central station when an alarm occurs. There is also the possibility for communication between the field units themselves.



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DATA SUMMARY IN- AND OUTPUTS

- 8 digital inputs (passive or active)
- 4 digital outputs (max load 100 mA)
- 2 analogue outputs (4...20 mA or 0...1 Volt)

COMMUNICATION

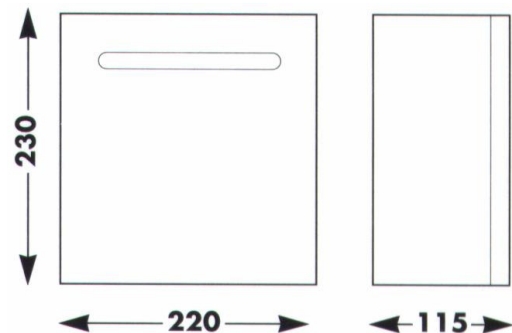
- RS485 field bus for i/o module (see OMC- 266x)
- 3 Serial RS232 ports (2 fully wired)
- Maximum communication speed 38 k4 bps

GENERAL

- Data memory 224 kB (extension to 1 MB possible)
- Program memory flash
- Real time clock
- Watch dog hardware
- Memory keyboard 18 keys
- LCD display: 2 x 40 characters
- Internal battery lithium 3,6 V (life time 10 years)
- Internal Forth compiler

DIMENSIONS

- Size 230 x 220 x 115 mm
- Weight 3.5 kg
- Cable glands 2 PG9, 3 PG11



POWER REQUIREMENTS

- Supply voltage 24 Vdc \pm 10% (12 Vdc optional)
- Power consumption 65 mA when active 0 mA when quiescent

ENVIRONMENTAL

- Temperature -30 to +60 deg. C
- Humidity 5 to 95 %
- Moisture protection IP 65
- EMC EN 50081-1 class B EN 50082-2