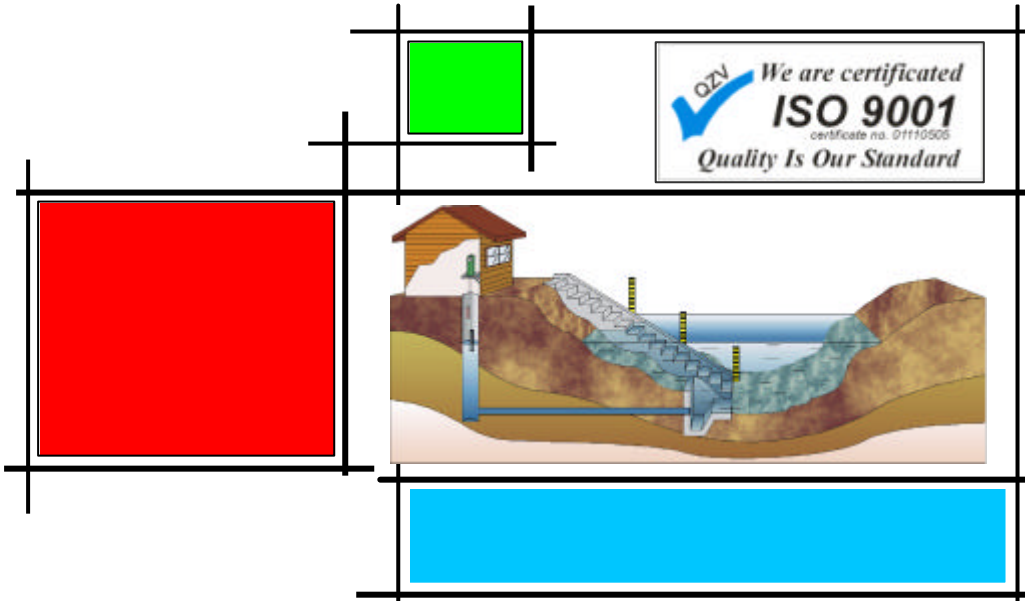




MDS 5 Data Logger



The multi-channel data logger for the storage of analogue and digital values

- analogue or digital input for the connection of any sensor
- possibility of event-controlled data acquisition
- easy installation and operation
- very low consumption
- high data volume and data security



MDS 5 Datalogger

The MDS 5 multi-channel data logger is the successor of the proven datalogger MDS III series. Great importance has been attached to utilization of modern serial flash memories for big data volume and absolute data security, as well as to very low consumption. Also the dimensions of the electronic circuit could be reduced to a minimum and contains the following features:

- Event controlled / Dynamic mode / Time controlled registration
- Individual power up control for attached sensors
- Alarm limit management

Generally the basis is a CPU circuit, which is able to operate on its own. The connection of the parameters will be effected with terminals, 10 analogous inputs and 2 impulse inputs are possible. As options a modem module, USB-interface, Bluetooth-interface or SD-card-slot are available.

The CPU circuits have a CPU-bus, which enables, that several CPU circuits can be operated as single-master / multi-slave. So the construction of datalogger- and alarm managing systems is possible with strict separation of function.

A special RTC-IC (real time clock) always secures the time and a watchdog function, independent from the micro-controller.

A certification according to II 2G EEx ib IIC T4 is aimed, for legal operation in sewage channels.

Technical Data:

Module on the CPU-circuit

- circuit 42x100 mm in 6-fold multi-layer
- basic supply 3,6V lithium batteries with approx. 20 µA in power-down
- flash-CPU MSP430F449IPZ
- power supply internal 3.6V lithium battery or external feed-in 6 ...24V
- clock- and watchdog IC
- serial flash memory 2 socket with 512KB and 512KB
- AD-converter 16bit with input amplifier: max 10 uni-polar channels (0...20mA resp. 0...2,5V) or 4 bi-polar channels (passive transducers) or mixed-up
- 2 impulse inputs
- 2x sensor switch-on
- 2x RS232-interface, 1 standard
- 2x RS485-interface, 1 standard
- alpha-numeric LCD display, 8 digits
- key connection for three function keys
- parameter and measuring data are in the non-volatile memory

Additional possibilities via mounting circuit

- USB-connection
- Bluetooth-connection
- coupling of several CPU-modules
- integration of modem GSM modules
- switch function relay (alarm management)
- analogous output (online-channels)

The right is reserved to change or amend the foregoing technical specification without prior notice.



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