

SmartDI™ UW-Logger V3

The "Smart Data Interface" SmartDI™ acquires data from different sensors and take control of production processes as well. During the collection of data the pre-processing validated already the values and passes quality-evaluated data records on according to ISO to back-end systems. The internal data logging stores up to 5 years continuously highly solvent data on a CompactFlash card. Over telemetry (Rs-232/485,



GSM/GPRS/UMTS, WLAN, Ethernet, Bluetooth, IRIDIUM, radio etc.) data are transmitted automatically on-line or at given times. With the SmartDI™ UW-Logger different sensors and measuring systems, e.g. CTD probes or Meteorology's can be operated. With the remote-controlled quick look function as well as extensive configuration and diagnostic menus a user-friendly man-machine interface is realized. The modular structure makes a simple and economical adjustment possible to the most diverse applications, which is extensively expandable.

Hardware Embedded ultra-low power controller @ 300 MHz

Firmware CONTROS SmartDI™ embedded multitasking real-time System
Memory 128 MB RAM • 2 GB CompactFlash • Other options on request

Interfaces 4 RS-232 / RS-485 interfaces • Expandable to 8 Interface lines • Output

configurable to binary, ASCII or NMEA-0183 data format

Analogue 8 channel 24 Bit inputs, ±20mV to ±10V, 0/4-20mA ● Expandable (1W each)

Digital 12 digital-in/out/counter • Solid-state-relays with 0-40V 4A drive (option for 12 SSR

outputs on request) • Expandable to other IO-modules (1W each)

Preprocessing 160+ Calibrate – and standard formulas following IEEE and UNESCO • Virtual

channels with independent configurations (e.g. sample rates) • Simulations quality

validating, error and spike detection; statistical values • QS data flagging

Specials GPS position-control (Geo correlation) • Soft-PLC fully programmable to any

production process • Event/alert control, e.g. to Control Centre or via SMS

Telemetry online / offline over RS-232/485 GSM/GPRS/UMTS, WLAN, Ethernet, Bluetooth,

IRIDIUM, Radio etc. with CRC checksum from CCITT • Data format Binary

compressed or ASCII / NMEA-0183 ● Telemetry modules on request.

Connectivity, Serial lines for more than 50 probes, meteorology's, automatic sampler and analysers of different manufacturers (CONTROS HydroC™, GPS NMEA-0183,

Seabird, FSI, Sea&Sun, WTW, RDI, AADI Aanderaa, Turner, SYSTEA, TriOS, Bbe MOLDEANKE, Vaisala, Lambrecht, etc. • Huge data-memory via CF-card

exchange • Expandable with RS-485 Bus for external acquisition modules.

Human interface Headless / no display ● Remote maintenance on a host PC: quick-look, diagnostic

tools, tools to simple remote maintenance/remote configuration

Power 9..32 VDC • Low-power 2W • each add. digital or analogue module approx. 1W

Operating -20°C..+70°C • Shock 10G 11ms

Operational depth 2000m, 4000m, 6000m options submergible titanium housing

Housing 90 d x 380 mm Titanium

Connector SUBCONN[®] micro connectors MCBH5 ● Others on request



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