Conel

ISO 9001:2001

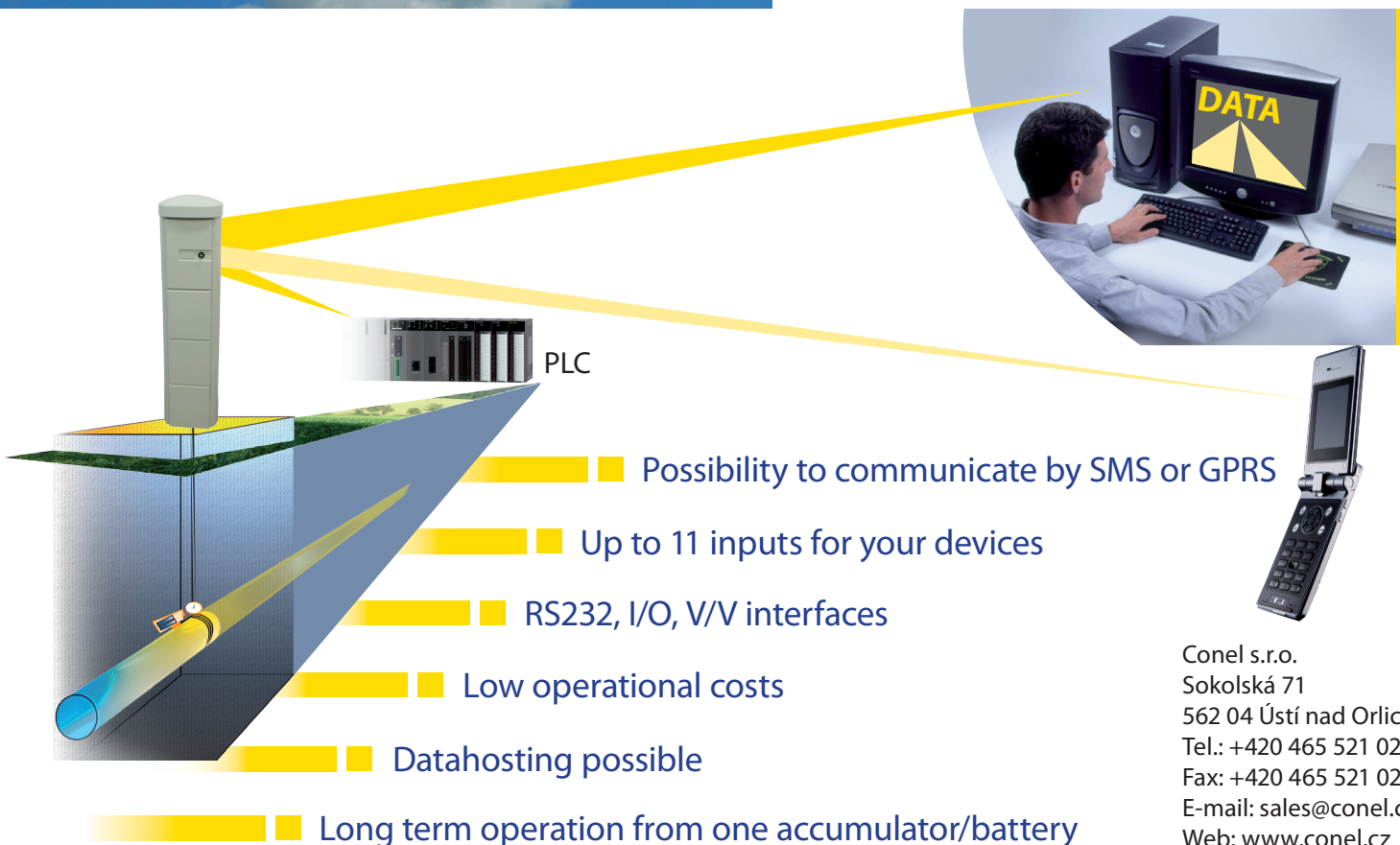# GSM datalogger DA4

monitoring

water metering shafts

pressure, flow and water surface

high - voltage disconnectors

statics of structures

measuring of air pollution

pressure and pumping stations

How does it work?

GSM Datalogger DA4 is low power equipment for data collection and transmission at places **where is not available or is inconvenient to use regular power network supply.** DA4 is possible to connect with controlling room or to transfer data into web application that is run on web server of manufacturer **(possibility of datahosting)**. Data over internet are available after registering (user name and password). You have also possibility **to get data in SMS format to your mobile phone.**

Datalogger DA4 **provides data in pre-set intervals** and you can monitor actual state of your technology and event history log. Between pre-set communication sessions is DA4 in sleeping mode to consume as little energy as possible – **so it can be run from connected accumulator or battery.** If the pre-set limits on sensors are exceeded (e.g. pressure) **datalogger sends alarm message immediately.**

GSM Datalogger DA4 would be delivered as a plain module or inside various plastic boxes with accumulator/battery. It is also possible to deliver complete plastic pillar with datalogger technology inside.

DATA

PLC

■ Possibility to communicate by SMS or GPRS

■ Up to 11 inputs for your devices

■ RS232, I/O, V/V interfaces

■ Low operational costs

■ Datahosting possible

■ Long term operation from one accumulator/battery

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■ Possibility to switch to on-line state from controlling room
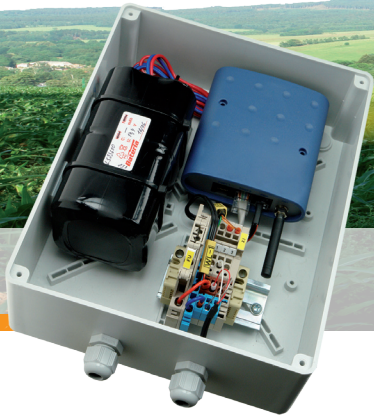
Advantages

- **High number of inputs / outputs**
  - 2 × counter (reed / opto)
  - 2 × binary input
  - 2 × binary output
  - 1 × binary output
  - 5 × possible to extend for 5 more extending I/O units CIO connected to CIO port

- **Serial communication by RS232 with datalogger**

- **Low power consumption**
  Industrial accumulators have endurance 10 or more years. Recharging approximately every 1 - 2 years – depends on type o communication, number of inputs, GSM signal strength, accumulator type and another factors (possibility of charging from public light system, solar panel etc.). Lithium middle battery life is 4 years (depends on a kind of application).

- **Many communication alternatives**
  Possibility to communicate by SMS or GPRS. Communication with confirmed messages on GSM-GPRS, supported protocols MODBUS, transparent LINE, AT modem, IEC-60870-5-104 and more. Possibility to implement protocol on request of customer in higher volume projects.

  ...and even more useful functions
  – adjustable time for messages sending
  – sending of alarm message when adjusted limits are exceeded
  – adjustable time for input reading
  – battery/accumulator monitoring
  – possibility to use network/solar cell power supply

Technical specification

Complies standards	EN 60 950:2001, EN 55022:1998, A1:2000, A2:2003, Cor:2003, 3GPP TS 51.010.-1,v5.5.0, EN 301 511, v7.0.1
Consumption	GPRS transmit (TX) 3,5 W GPRS on-line 1 W GSM stand-by 350 mW Sleep mode 1 mW
IP coverage	module IP20, possible to place into plastic box IP43, IP54
Power supply voltage	main: +10 to +30 V DC accumulator: 12 V/51 Ah, 12 V/38 Ah lithium battery: 8 × 3,6 V/16,5 Ah
Operation time	According to the number of sensors, number of measuring, exploitation of GPRS and depended on signal quality up to 8 years without battery change
User interfaces	PORT1 - RS232 (RJ45) PORT 2 - connector RJ45 - 2 counters, 2 binary inputs, 2 analog inputs, 1 binary output - open collector CIO – 5 SW adjustable inputs (analog, binary) / outputs (open collector) - RJ45 connector
Communication speed	Transmission 2 × Time slot (max. 42,8 kb/) Reception 4 × Time slot (max. 85,6 kb/s)
Temperature range	from -20 °C to +55 °C

Datahosting

Try out our datahosting!
Connect to the Internet, insert user name and password and see the features available. Your technology would be here.

Datahosting address: https://conel.myio.cz.
User name: demo
Password: demo