MINILOG2, DATA LOGGER, GPS SWITCH AND DCVG MEASURING UNIT IN A SINGLE DEVICE

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Before the appearance of the MiniLog2 universal measurement device, technicians working for cathodic protection measurement always needed several devices for fulfilling different kind of measurement tasks.

MiniLog2 as switcher

As a basic preparation for cathodic protection measurements, one has to install a switcher at the rectifier station, assuring the on- and off-switching of all feeding rectifier in synchronized mode.
The new MiniLog2 is able to switch 15 amps with its internal mechanical relay (18 amps electronically relay as option) and up to 100 amps with an external slave relay.
Many commonly used switching cycles are preset, but the user can also manually setup its own switching cycle in 100ms steps.
By connecting the GPS antenna it is assured, that the MiniLog2 stays synchronized within 10 ms. Without any external re-synchronization, the special temperature regulated quartz built-in clock assures an accuracy of about +/-50ms per day.
When MiniLog2 is installed in places without power supply, the internal chargeable lithium ion battery allows 30 days of continuously switching.
Charging can be done by the included USB mains connector or the included 12V USB car adapter.

MiniLog2 as multimeters / datalogger

Each technician in the field of cathodic protection got its needs for measurement tasks with DC-, AC-potential and microvolt readings. These demands for a high sophisticated multi-meter with high accuracy, built-in low pass filters and a robust housing for every day usage.
Beside this, special measurement tasks require battery operated data logging from hours to even weeks duration with sampling rates up to 1 kHz.
The new MiniLog2 combines both requirements in a small but waterproof housing.
Two channels, each of them capable of measuring DC and AC simultaneously and the microvolt resolution for DC measurement serve as the replacement for extra multimeter devices needed before the time MiniLog2 was present.
In addition, all 4 channels (2 x DC, 2 x AC) can be logged simultaneously with sampling rates from 1 kHz up to 1 minute.
The internal memory allows more than 1 million values to sample without loosing any data even when the battery is empty.
On top of that, a GPS antenna can be connected for synchronization when using more than one MiniLog2 for parallel mode data logging.
The logged data can be evaluated with the software WinLog 2.0, or can be simply imported with Excel.
During the data logging, the MiniLog2 is able to switch simultaneously, given the technician the opportunity to measure and switch without the need of installing an additional switcher.
MiniLog2 for pipe survey

With its small and water-proof (IP68) housing the MiniLog2 and its 4 channels input (2x DC, 2 x

AC) is ideally suited for doing pipe surveys.
The MiniLog2 can be used as a high sophisticated pipe survey device with automatic and simultaneously measuring the on-/off-potential and the on-/off-gradient. A simple push of a keyboard button stores the measurement.
For even faster surveys, the DCVG mode allows the digital reading of the on-/off-voltage difference in combination with an analogue bar graph readout for easy finding defects just by watching the tendency of the measured values.
If the GPS antenna is connected, the GPS coordinates are stored for each measurement.
The logged data can be evaluated with the software IntMess 3.0, or can simply be imported with Excel.

Picture 1.

MiniLog2 – New Multi-Tool for different Cathodic Protection applications like Data logging, GPS-synchronized rectifier switching and DCVG / CIPS measuring in a single, rugged and waterproof device