

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

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General the new MiniLog2 is a waterproof universal measuring instrument with LCD and keyboard designed for CP measurement tasks. Used as a datalogger the MiniLog2 samples both channels for DC and AC voltages simultaneously. The integrated 15 A relay is fully GPS synchronized and switches not only coupons, but also rectifiers and flanges. In addition, the MiniLog2 is able to make DCVG and CIPS measurements and stores the GPS coordinates for every measuring point.

Datalogger with Microvolt Measurement. Two channel sampling, each with DC and AC measurement, results in a maximum of four values per measurement. Both DC channels allow microvolt resolution and have active filters built-in to prevent low frequency interference. The MiniLog2 is able to sample up to 1,300,000 values (4 MByte, optional 16 MByte). This results in up to 20 min sampling even when measuring in "High-Speed mode" (= 1,000 measurements / s). The built-in USB connector allows galvanically isolated data transfer via a USB to the PC/Notebook.

Miniaturized Time Switch with Rechargeable Battery. The MiniLog2 has a mechanical 15 A/60 V relay for switching of rectifiers, flanges and coupons. Optionally available is a solid state 18 A/100 V switch. Via the keyboard and LCD a switching cycle resolution of 0.1 s is configurable by the user. In addition, night and weekend suspension is selectable. The rechargeable battery allows switching for one month. For a fixed installation in the rectifier housing the included USB mains supply can be used.

DCVG and CIPS. MiniLog2 shows the DCVG voltage difference in a specially designed LCD bar graph for quick recognition. With a simple press of the "OK" button the DCVG value and the related GPS coordinates are stored and the measurement continues. In the same way potential and voltage gradient measurements (CIPS) are done.

Coupon Measurement with 1 kHz Sampling Rate. When measuring coupon IR free potentials the MiniLog2 is able to simultaneously switch and measure the coupon potential. To avoid measurements during times when a switching spike or equalizing current could affect the reading it is possible to set the delay between switching and taking the measurement. This delay can be adjusted in increments of 1 ms. For accurate sampling during the complete off period the MiniLog2 is able to measure up to 1,000 measurements/second.

GPS Synchronization and Coordinates. The optional Garmin GPS receiver allows the exact synchronization of the MiniLog2. Using the MiniLog2 as datalogger or for DCVG measurement, the GPS coordinates are automatically stored beside each measurement.