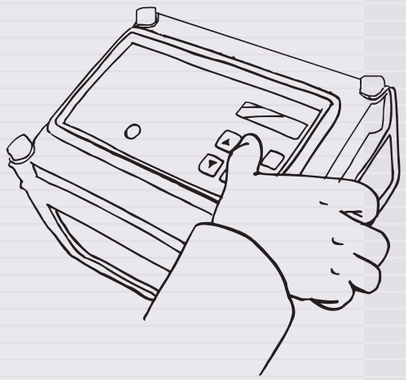
Checking the settings of the datalogger.



Configuration of the datalogger using a laptop.

21.11.01 Datalogger DL2e, standard hardware system

Datalogger with a memory for 32.000 measurements (extendable to 128.000) housed in a weather resistant (IP65), synthetic housing. The datalogger is fitted with function keys and an LCD-read-out screen. Various sensors and additional components make this datalogger a many sided instrument suitable also for future applications.

In its standard design the datalogger has 30 analog (15 differential), 2 digital/pulse and 2 relays output channels. The datalogger is programmed using software that can be used on any IBM-compatible PC. Each channel can be configurated for an individual sensor. Measuring intervals can be set from 1 second to up to 24 hours.
The datalogger can be started directly via the datalogger itself (function keys) or via an external signal or automatic (date and time). A great number of conversion tables have been stored in the datalogger allowing measured signals to be transformed into workable values such as °C, Watt per m2 , etc. Additionally the datalogger offers the facility to bring-in customer specific conversions. Internal electricity supply with batteries or via mains or solar panel.

Advantages

- Connecting facilities for different sensors.
- Weather resistant (IP65), rugged, portable datalogger.
- Many sided because of the application of plug-in-cards.
- Extendible to 62 channels.
- Extensive memory capacity.
- Every channel can be individually programmed.
- Extensive series of measuring and recording intervals.
- Compatible with all IBM compatible PC's.
- Menu controlled software.
- On-site checking by using the keys and the display on the front panel.

Datalogger extendable to 62 input channels

METEO DATALOGGERS & SENSORS

You will return to the contents of P4 EARTH MONITORING by clicking the pictogram

P4.30

The rain gauge must be positioned horizontal and unobstructed.

Sensors

The various sensors, together with a datalogger, can be used to construct a customer specific measuring system.

Precipitation

16.98.47 Aerodynamic synthetic rain gauge

The design of the synthetic rain gauge is such that the disturbing influence of air-currents is reduced to a minimum. The funnel has a surface of 507 cm^2. The output signal, in the form of a switch contact, is recorded by the logger or recorder. Accuracy +/- 1%. Also supplied with integrated datalogger (e+ RAIN set 11.41.21.SA or 11.41.22.SA).

Wind

16.98.31 Wind speed sensor

The wind speed sensor has a measuring range of 0.25 - 75 m/sec and an accuracy of 1% +/- 0.1 m/sec. For every 1.25 m wind passage a signal is given to the datalogger.

16.98.50 Wind speed sensor MM067-IH

This wind speed sensor is specially designed for the wind turbine industry with the aim to obtain a robust and accurate wind measuring system. The sensors measure optically. Measuring range 0.75 - 40 m/sec, resolution 0.04 m, inaccuracy <0.8 m/s (@ 0-30 m/s) <0.5 m/s (@ 3-30 m/s). Heater inside, operating temperature -75 till +80 °C.

16.98.34 Wind direction sensor

Sensor for the registration of the wind direction. The wind vane will respond to wind speeds as low as 0.6 m/sec. The sensor has an accuracy of +/- 0.2° at wind speeds over 5 m/sec.

16.98.51 Wind vane type MM660-IH

Very robust and accurate wind vane with reinforced stainless steel vane shaft. Special design ensures a free movement during frost periods. Measuring range 0-360°, resolution 5.6°, inaccuracy <3.8°, heater inside, operating temperature -75 till +80 °C..

Aerodynamic rain gauge (16.98.47)

Wind speed sensor (16.98.50)

Wind speed sensor (16.98.31)

Wind direction sensors (16.98.34 (below) & 16.98.51)