



C-Box Modbus Processing interface

Technical Specifications

Smart Sensor Interface

DNI / GHI / DHI measurements

Output 0-1V / Modbus 485 RTU

GPS receiver

All weather enclosure

The C-BOX smart processing interface provides different functions for sensor control and data processing of different EKO sensors. In combination with the MS-90 DNI sensor, the pulsed output can be converted into a continuous output Voltage or Modbus 485 RTU signal. With an additional pyranometer and optional GPS receiver a turnkey system can be configured to measure DNI, GHI and DHI over Modbus.

By using this device, the MS-90 analogue voltage output peaks correspondent to DNI are detected and converted to digital. It then transmits and receives data with serial communication method. Since it is compatible with RS-485 communication, it is possible to connect with PV monitoring devices, which have this communication function. By setting the pyranometer sensitivity on signal converter, the voltage signal output from pyranometer can be converted to solar irradiance. The signal converter is integrated in an IP65 enclosure for outdoor installation. The settings for

the measurements and communication can be changed by using the setup software.

	C-Box Modbus
Communication interface	RS-485 Modbus
Channels	2 units
Functions	DNI, GHI, DHI processing
Ingress protection IP	65
Operating temperature range	-40 - 80 °C
Voltage range	12V
Power consumption	< 1 W

Specifications are subject to change without further notice.