Cabling

The standard cable length is 5 m. Optionally cables of 10 and 20 m are supplied. Extension to longer cable lengths is achieved by adding extension cables of 20 m with 2 connectors.

Figure 0.7 *On the left the SR30 cable with M12-A female connector on sensor end, pigtails of 0.15 m and conductors with ferrules. Its length is 5 metres standard and available in 10 and 20 metres too. On the right the optional Hukseflux extension cable with connector pairs, with male and female M12-A connectors, available in 20 metres*

SR30 is designed for use in SCADA (Supervisory Control And Data Acquisition) systems, supporting Modbus RTU (Remote Terminal Unit) protocol over RS-485. In these networks the sensor operates as a slave. SCADA systems are often implemented in photovoltaic solar energy (PV) systems and meteorological networks. Using SR30 in a network is easy. Once it has the correct Modbus address and communication settings and is connected to a power supply, the instrument can be used in RS-485 networks. The user should have sound knowledge of the Modbus communication protocol when installing sensors in a network.

The instrument should be used in accordance with the recommended practices of ISO, WMO and ASTM.

The recommended calibration interval of pyranometers is 2 years. The registers containing the applied sensitivity and the calibration history of SR30 are fully accessible for users. This allows the user to choose his own local calibration service. The same feature may be used for remotely controlled re-calibration of pyranometers in the field. Ask Hukseflux for information on this feature and on ISO and ASTM standardised procedures for field calibration.