

A755 GPRS SDI-12

The A755 GPRS SDI provides users with a cost effective means of logging multi-parameter sensors which make use of the SDI-12 protocol.

The A755 can record up to 40 SDI-12 sensor values and is also fitted with a single pulse input for connection to rain gauges or flow meters.

The A755 is housed in a robust aluminium case. Sensor and power connections are made using waterproof Binder connectors. Power comes from an internal NiMH battery which is charged using a compact solar panel. A single use Lithium-Thionyl battery is also available.

Applications

- Weather stations
- Soil moisture monitoring
- Science, research & development, and much more



Technical data

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|---|---|--|---|
| Dimensions | 6.3 x 2.36 x 3.15 in. | Operating time (with-out charging of internal battery) | standard mode: up to 21 days; power-save mode: up to 6 months; depends on slot-time, transmission rate, sensors |
| Weight | 2.54 lb. | Frequency range | 850 / 900 / 1800 / 1900 MHz |
| Ingress Protection class | IP-67 | Rx Sensitivity | -106 dBm |
| Temperature range | -4°F to +148°F | Tx Output Power | max. 2 W (depends on frequency) |
| Case | powder-coated aluminum | Transmission distance | max. 22miles as per GSM standard |
| Screw connections | flange sockets of nickel-plated brass, stainless cover screws | Expansion (optional) | internal Modbus IF via RS 485 |
| Connectors (all connectors IP67 if properly mated or capped) | 1x Binder M9 7-pin to SDI-12 1x Binder M9 5-pin to solar cell / power supply 1x TNC Antenna connector | Antenna | omnidirectional quad-band, 2dBi |
| Power supply | 6,2 V NiMH battery 3.100 mAh + solar panel / mains adapter | Type approvals | R&TTE, FCC Part 15, ACMA Australia, Industry Canada, etc. |
| SDI-12 Bus Port | supports up to 40x SDI-12 values | Ordering Information: | |
| Pulse input | 1x pulse counter, max. 30Hz | 100.755.010 | A755 GSM/GPRS SDI |
| Sampling interval | user specific (from 10sec. to 12h); sensor restrictions apply | 200.733.522 | Solar Panel, 460mA |
| Internal memory | 2MB for up to 500,000 values | 200.800.017 / .018 | Cable to SDI-12 sensor, 5m / 10m |
| | | 800.000.466 | SDI-12 cabling box |
| | | 900.000.567 | ext. GSM antenna for mast mounting |