

A755 addSDI GPRS - Version 2

Version 2 of our A755 GPRS RTU 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, connect to two pulse counter, monitor two TTL ports, and even perform switching operations.

The A755 is housed in a robust aluminum 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
- Water Management
- Science, research & development, and much more



Technical data

Dimensions	160 x 60 x 80 mm	Operating time on rechargeable batteries if not charged by solar	in standard mode up to 21 days, in power-save mode up to 6 months; depends on slot-time, transmission rate, and sensors power needs
Weight	1.150 g	Operating time on non-rechargeable Lithium battery (optional)	in power-save mode up to 2 years; dep. on slot-time, transmission rate, sensors power needs, GSM quality
Ingress Protection class	IP-67 (optional: IP-68)	Frequency range	850 / 900 / 1800 / 1900 MHz
Temperature range	-20°C ... +65°C (opt.: -30°C ...+75°C)	Rx Sensitivity	-106 dBm
Case and Mounting	powder-coated aluminum, integrated mast-mounting bracket	Tx Output Power	max. 2 W (depends on frequency)
Screw connections	flange sockets of nickel-plated brass, stainless cover screws	Transmission distance	max. 36km as per GSM standard
Connectors (IP-67 if properly mated or capped)	2x Binder M9 7-pin 1x Binder M9 5-pin (power) 1x TNC Antenna connector	Expansion (optional)	internal Modbus IF via RS 485
Power supply	6,2 V NiMH battery 3.100 mAh + solar panel / mains adapter; opt.: Lithium-Thionyl 13Ah batt.	Antenna	omnidirectional quad-band, 2dBi
SDI-12 Bus Port	supports up to 40x SDI-12 values	Type approvals	R&TTE, ACMA Australia, FCC Part 15, Industry Canada, etc.
Pulse inputs	2x pulse counter, max. 30Hz	Ordering Information:	
Digital I/Os	2x TTL (1x 3V; 1x 5V)	100.755.010	A755 V2 GPRS SDI-12
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
		900.000.567	ext. GSM antenna for mast mounting