A753 addWAVE GSM/GPRS

The A753 addWAVE GSM/GPRS was developed to meet the most stringent requirements towards a universal telemetry station: high resolution, WMO compliance, synchronous and asynchronous monitoring, lots of memory, 60 I/O channels, and much more. It comes in a robust aluminum housing, with integrated battery and quad-band TELIT GPRS modem. Power is supplied by a solar panel the size of a post-card. Via optional expansion boxes up to 52 digital I/Os can be added. A Modbus-IF can also be integrated.

Applications

- Allround-RTU, extremely compact, extremely rugged, extremely low-power
- WMO-compliant weather recording
- Flood warning, dam monitoring
- Agriculture & public water supply
- Science, research & development, and much more

Technical data

Dimensions	160 x 60 x 80 mm		Internal memory	2MB for up to 500.000 values
Weight	1.200gr.		Wind Port C	measures wind 4x per second and calculates 3-sec. average
IP class	IP-67			
Temperature range	-30°C ... +65°C		Rain Port D	time-stamps every pulse
Case	powder-coated aluminum		Digital events	records and time-stamps every status change on a digital input
Screw connections	flange sockets of nickel-plated brass, stainless cover screws		Operating time (without charging of internal battery)	in standard mode up to 14 days, in power-save mode up to 6 months; depends on slot-time, transmission rate, and sensors
Connectors (all connectors IP67 if properly mated or capped)	4x Binder M9 7-pin to sensors 1x Binder M9 5-pin to solar cell / power supply 1x TNC Antenna connector			
			Frequency range	850 / 900 / 1800 / 1900 MHz
Power supply	6,2 V NiMH battery 3.100 mAh + solar cell / mains adapter		Rx Sensitivity	-106 dBm
			Tx Output Power	max. 2 W (depends on frequency)
I/O-Ports	12x analog in (0 ... 1/2,5 VDC ; including 3x 0 ... 150mV) 4x pulse counter 4x digital in/out (0 ... 3V TTL) 40x SDI-12 values		Transmission distance	max. 36km as per GSM standard
			Expansion (optional)	- internal Modbus IF via RS 485 - external digi-I/O Box A553
			Antenna	omnidirectional quad-band, 2dBi
Resolution	16-Bit @ 0 ... 2,5 V ; 2x 50Hz and 2x 500Hz pulse counter		Type approvals	R&TTE, FCC Part 15, ACMA Australia, Industry Canada, etc.
Sensor excitation	a) unregulated batt. 5,6V ... 7,2V b) regulated from 3,3V ... 5,5V		Ordering information	
			100.753.010	A753 addWAVE GSM/GPRS
Sampling interval	user specific (from 10sec. to 12h)		200.733.522	Solar Panel, 540mA
			200.733.553	A553 Digital Expansion Box
Measuring method	synchronous & asynchronous		800.514.001	A514 Modbus Adapter