

A752U - addWAVE LE UHF

The A752 addWAVE LE is designed to meet the requirements for a flexible, long range telemetry unit, which can be used in a variety of applications.

It comes in a robust aluminium housing, with integrated battery and 0.5W radio transceiver. Power is supplied via an internal NiMH battery and solar panel the size of a postcard. Sensors are connected to the analogue, pulse and SDI-12 channels via two 7-pin binder connectors. The logged data is then transmitted at regular intervals to a telemetry base station (A850 Gateway and A440 Radio Modem) or RA440 UHF to GPRS Bridge, over a licensed radio frequency (450 to 470 MHz). The A752 may also be used as a repeater, relaying data from low power A723 and A724 units back to the base station. The A752 has a range of 5 to 20 km, depending on terrain and antenna height.

Applications

- Soil moisture monitoring
- Automated meter reading
- Agriculture - plant protection
- Urban and rural water supply utilities
- Science, research & development, and much more



Technical Data

Dimensions	160 x 60 x 80 mm	Resolution	Analogue : 16-Bit @ 0 - 2.5 V Pulse Counter : 1 x 50Hz and 1 x 500Hz
Weight	1.2 kg		
Ingress Protection class	IP-67	Operating time (without charging of internal battery)	Standard mode: up to 21 days, Power-save mode: up to 6 months; depends on slot time, transmission rate, and type of sensors
Temperature range	-30°C to +65°C	Frequency range	450 to 470 MHz
Case	Powder-coated aluminium	Rx Sensitivity	-106 dBm
Connectors (all connectors IP67 if properly mated or capped)	2 x Binder M9 7-pin to sensors 1 x Binder M9 5-pin to solar cell / power supply 1 x TNC Antenna connector	Tx Output Power	max. 1 W
Power supply	6.,2 V NiMH battery 3.3 Ah with charge from solar cell / mains adapter	Transmission distance	5 to 20 km
I/O-Ports	6 x analogue (0 - 1/2,5 VDC ; Including 3 x 0 - 150mV) 2 x pulse counter 2 x digital in/out (0 - 3V TTL) 40 x SDI-12 values	Antenna	Omnidirectional quad-band, 2dBi
Sampling Interval	10sec. to 12h	Part Numbers	100.752.003 A752 addWAVE-LE 200.733.522 Solar Panel 460mA 200.730.502 Aluminium pole set 900.000.567 External antenna 200.733.522 AC adaptor 7.5V
Measuring method	synchronous & sequential		
Internal memory	2MB for up to 500,000 values		