A733 addWAVE UHF

Adcon's A733 addWAVE is a flexible, general purpose radio data logger. Its features make it ideal for use in applications where long distance communications and a high count of analogue and digital input channels are required.

The A733 addWAVE combines high analogue and digital input capacity, with on board logging and radio communications. The unit has a range of 5 to 20 km and can be used as a repeater for other Adcon RTUs.

Power comes from an internal NiMH battery which is charged from a compact solar panel.

Applications

- Weather stations for meteorology and agro-meteorology
- Hydrographics: recording of level, rain, water quality
- Water distribution networks. Leak detection, meter reading, pressure monitoring

Technical data

Dimensions	160 x 60 x 80 mm	Operating time (without charging of internal battery)	up to 30 days, depending on slot-time, transmission rate, and power consumption of sensors
Weight	1.200 g		
Ingress Protection class	IP-67	Frequency ranges	Band 1: 430 - 440MHz
Temperature range	-30°C to +65°C		Band 2: 440 - 450MHz
Case	powder-coated aluminum		Band 3: 450 - 460MHz
Screw connections	flange sockets of nickel-plated brass, stainless cover screws		Band 4: 460 - 470MHz
		Channel spacing	10 / 12,5 / 25kHz
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	Rx Sensitivity	-120 dBm (10 dB S/N)
		Tx Output Power	500mW
		Transmission distance	max. 20km (depends on topography and type of installation)
Power supply	6,2 V NiMH battery 3.100 mAh + solar cell / mains adapter	Antenna	omni-directional, λ/2, +2dBi
I/O-Ports	12x analogue in (0 - 2,5 VDC) 4x pulse counter 4x digital in/out (0 - 3V TTL)	Type approvals	R&TTE, FCC Part 15, ACMA Australia, Industry Canada, etc.
		Ordering information	
SDI-12 support	via optional A506 SDI-12 adapter for up to 20 sensor values	100.733.101 100.733.102 100.733.103 100.733.104	A733 addWAVE Band 1 A733 addWAVE Band 2 A733 addWAVE Band 3 A733 addWAVE Band 4
Sampling interval	user specific (from 1min. to 12h)		
Measuring method	simultaneous	200.733.522	Solarzelle, 460mA
Internal memory	32KB for up to 19.000 values	200.733.506	A506 SDI-12 Adapter
Resolution analog	10-bit	200.733.508	A508 WindMAX Adapter
Resolution pulse counter	adjustable: 1,6Hz / 30Hz		