

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 resolution 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	Frequency ranges	Band 1: 430 - 440MHz Band 2: 440 - 450MHz Band 3: 450 - 460MHz Band 4: 460 - 470MHz
Ingress Protection class	IP-67	Channel spacing	10 / 12.5 / 25kHz
Temperature range	-30°C to +65°C	Rx Sensitivity	-120 dBm (10 dB S/N)
Case	powder-coated aluminium	Tx Output Power	500mW
Screw connections	flange sockets of nickel-plated brass, stainless cover screws	Transmission distance	max. 20km (depends on topography and type of installation)
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	Antenna	omni-directional, $\lambda/2$, +2dBi
Power supply	6.2 V NiMH battery 3.1Ah + solar cell / mains adapter	Type approvals	ACMA Australia, R&TTE, FCC Part 15, Industry Canada, etc.
I/O-Ports	12x analog in (0 - 2.5 VDC) 4x pulse counter 4x digital in/out (0 - 3V TTL)	Ordering information	
SDI-12 support	via optional A506 SDI-12 adapter for up to 20 sensor values	100.733.101	A733 addWAVE Band 1
Sampling interval	user specific (from 1min. to 12h)	100.733.102	A733 addWAVE Band 2
Measuring method	simultaneous	100.733.103	A733 addWAVE Band 3
Internal memory	32KB for up to 19,000 values	100.733.104	A733 addWAVE Band 4
Resolution analog	10-bit	200.733.522	Solar panel, 460mA
Resolution pulse counter	adjustable: 1.6Hz / 30Hz	200.733.506	A506 SDI-12 Adapter
		200.733.508	A508 WindMAX Adapter