

A723 addIT Series 4

The A723 addIT Series 4 is a versatile, short range RTU (Remote Telemetry Unit), designed for remote environmental monitoring. Its extremely low power consumption allows for permanent solar powered operation.

The A723 has 6 analogue, 2 pulse and 2 digital inputs and supports up to 40 SDI-12 values. Logging and transmission intervals are customizable over a wide range. A robust IP-66 rated aluminum housing ensures year round operation, even in harsh environments. Waterproof Binder connectors are used for sensor and solar panel connections, making field installation quick and simple. Radio range can be extended by relaying the signals through one or more of Adcon's high power RTUs.

Applications

- Soil moisture monitoring
- Economical weather station
- Logging tasks which require a number of sites to be installed in close proximity to one another



Technical data

Dimensions	100 x 70 x 40 mm	Resolution	12-Bit @ 0 ... 2,5 V 50Hz pulse counter
Weight	450gr.	Sensor excitation	Stabilized between 3,3V and 5,5V or unregulated batt.V (programmable)
Ingress Protection class	IP-66	Operating time (without charging battery)	Up to 14 days; depends on slot time, transmission rate, and sensor types
Temperature range	-30°C ... +70°C	Internal memory	64KB for up to 20.000 values
Case	powder-coated aluminum	Frequency range	432 ... 470 MHz
Screw connections	flange sockets of nickel-plated brass, stainless cover screws	Rx Sensitivity	-110 dBm
Connectors (all connectors IP67 if properly mated or capped)	2x Binder M9 7-pin to sensors 1x Binder M9 5-pin to solar cell / power supply	Tx Output Power	10 mW
Power supply	6,2 V NiMH battery 2,1Ah + solar cell / mains adapter	Transmission distance	Up to 1km
I/O-Ports	6x analog in (0 ... 1/2,5 VDC ; including 3x 0 ... 150mV) 2x pulse counter 2x digital in/out (0 ... 3V TTL) 40x SDI-12 values	Antenna	omni-directional whip, 1/4λ, 2dBi
Sampling interval	user specific (from 10sec. to 12h)	Type approvals	R&TTE, FCC Part 15, ACMA Australia, Industry Canada, etc.
Measuring methods	simultaneous / sequential	Ordering information:	
		100.723.000	A723 addIT Series 4
		200.733.520	Solar Panel, 220mA
		800.000.285	Spare battery: 2,1Ah; NiMh