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-67 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
Weight	450gr.
Ingress Protection	IP-67
Temperature range	-30°C ... +70°C
Case	powder-coated aluminum
Screw connections	flange sockets of nickel-plated brass, stainless cover screws
Connectors (IP67 only if properly mated or capped)	2x Binder M9 7-pin to sensors 1x Binder M9 5-pin to solar cell / power supply
Power supply	6,2 V NiMH battery 2,1Ah + solar cell / mains adapter
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
Sampling interval	user specific (from 10sec. to 12h)
Measuring methods	simultaneous / sequential
Internal memory	64KB for up to 20.000 values

Resolution	12-Bit @ 0 ... 2,5 V 50Hz pulse counter
Sensor excitation	Stabilized between 3,3V and 5,5V or unregulated battery Voltage (programmable)
Operating time (without charging battery)	Up to 14 days; depends on slot time, transmission rate, and sensor types
Frequency range	432 ... 470 MHz
Rx Sensitivity	-110 dBm
Tx Output Power	10 mW
Transmission distance	Up to 1km
Antenna	omni-directional whip, ¼λ, 2dBi
Type approvals	R&TTE, FCC Part 15, ACMA Australia, Industry Canada, etc.

Ordering information:

100.723.000	A723 addIT Series 4
200.733.520	Solar Panel, 260mA
800.000.285	Spare battery: 2,1Ah; NiMh