



ADCON A723 addIT Series Datalogger, 4 Radio Modem

Product #: 100723000-C

USD Price: Contact Hach

The A723 addIT is ADCON's best selling RTU - a very compact yet powerful integrated data logger with a 10mW UHF modem inside. In its robust aluminum case and a wealth of I/Os it is suitable for a large variety of applications, from agriculture to water management, from hydrographics to municipal leak detection.

SDI-12 Adapter on-board

You can connect up to 40 SDI-12 sensors to the internal adapter of the A723 Series 4. No external SDI-12 adapter is required. Use a standard 7-pin Binder cable as for all other sensors, plug it in, and set the driver in the Gateway.

Resolution of A/D Converter

The powerful Renesas CPU of the Series 4 addIT provides true 12-Bit resolution. This reduces the max. error caused by AD conversion from 0.1% to 0.025%. Thanks to a highly accurate voltage reference this resolution is available over the full temperature range of the RTU, from -30°C to +70°C.

Stabilized Excitation Power

Ratiometric sensors require a stable excitation power. A723 Series 4 lets you select unregulated battery power, ranging from 5.6V to 7.5V, or stabilized and accurate excitation power from 3.3V to 5.5V.

Asynchronous Sampling

While by default all sensors are sampled in the same instant, you can now choose to first sample Port A, then Port B. This is advisable for all sensors that might influence each others readings, eg. because they are sitting in a conductive media like water or wet soil.

Pulse Counter Frequency

Count up to 30 pulses per second. That is of particular importance for high speed rain gauges, such as the Pluvio from OTT HydroMet, but also for conventional mechanical water and gas meters, and for electromagnetic flow meters.

Specifications

Analog Inputs:	0-2.5 V with 12-Bit resolution 0-1V with 11-Bit resolution
Approved Type:	R&TTE, CE, FCC, Ind.Canada, ACMA Australia
Body material:	Aluminum, powder-coated
Cable Connection:	2 x Binder M9 7-pin female (Sensor) 1 x Binder M9 5-pin female (Power)
Digital I/O:	Configurable as either TTL-inputs for status control or as TTL-outputs to switch a relay (might require relay amplifier interface ADI-24)
Digital Outputs:	Configurable as either TTL-inputs for status control or as TTL-outputs to switch a relay (might require relay amplifier interface ADI-24)

Dimensions:	450g)
Excitation:	Stabilized: adjustable from 3.3V to 5.5V Unregulated: feeds battery voltage to the sensors, from 5.6V to 7.5V
Inputs:	for standard reed switches as used eg. in rain gauges or water meters. Max. frequency 30 pulses per second; min. pulse length 17ms, min. break time 17ms
IP Rating:	IP67
Material Enclosures:	Aluminum, powder-coated
Memory:	64KB for up to 20.000 readings (dep. on type of sensors attached)
Mounting:	Mast mounting bracket
Operating Frequency:	432 - 470MHz
Power Output:	10mW
Power Supply:	internal 6.2V NiMH battery w. 2200 mAh, charged by solar panel or mains adapter
SDI-12 port:	On-Board via I/O port A. Accepts up to 40 sensor values
Sensitivity:	-110dBm
Temperature Range:	-30 °C - 70 °C
Transmission Distance:	up to 1.000 m (depending on topography)