

A740 addNODE UHF

A740 addNODE has been designed for use in applications which require a high quality, flexible radio data logger. The A740 addNODE will not only collect data from various sensors, but can react to events/alarms, e.g. if a sensor value exceeds a threshold the A740 can change the sampling interval and operating mode, turn on a digital output, or change the voltage on the analog output.

The units 16 on-board channels can be increased to 50, by plugging modules into its expansion bus. Input connections are made via cage clamps and the RTU must be installed in a suitable enclosure. Power comes from an internal NiMH battery which is charged via a compact solar panel . The A740 is radio compatible with other Adcon RTUs.

Applications

- Professional weather stations
- Pump, level and equipment monitoring
- Control of irrigation pump stations



Technical data

Dimensions	6.46 x 4.13 x 3.35 in.	Resolution pulse counter	adjustable: 1.6Hz / 500Hz
Weight	2.49 lb.	Operating time (without charging of internal battery)	up to 25 days, depending on slot-time, transmission rate, and power consumption of sensors
Ingress Protection class	IP-50	Frequency ranges	Band 4: 460 - 470MHz
Temperature range	-22°F to +149°F	Channel spacing	10 / 12.5 / 25kHz
Case	aluminum with integrated DIN rail mounting	Rx Sensitivity	-120 dBm (10 dB S/N)
Connectors	replaceable cage clamps, 0,5mm ² 1x TNC Antenna connector	Tx Output Power	500mW
Power supply	6.2 V NiMH battery 3.100 mAh + solar cell / mains adapter	Transmission distance	max. 20km (depends on topography and type of installation)
I/O-Ports	8x analog in (0 - 1/2.5 VDC; 4-20mA) 1x analog out (0 - 2.5V in 1% steps) 4x digital in (counter, frequency input, high-low TTL) 4x digital out (switches max. 24V @ 30mA, or PWM pulse width modulation)	Antenna	various models available
Sampling interval	user programmable for each channel	Type approvals	ACMA Australia, Industry Canada, R&TTE, FCC Part 15, etc.
Internal memory	1MB for up to 200,000 values	Ordering information	
Resolution analog	12-bit	100.740.104	A740 addNODE Band 4
		200.733.509	addPORT Port extender
		900.000.470	External antenna kit, 6m
		900.000.471	External antenna kit, 10m