

# 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 analogue 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	164 x 105 x 85 mm	Operating time (without charging of internal battery)	up to 25 days, depending on slot-time, transmission rate, and power consumption of sensors
Weight	1,130 g	Frequency ranges	Band 1: 430 - 440MHz Band 2: 440 - 450MHz Band 3: 450 - 460MHz Band 4: 460 - 470MHz
Ingress Protection class	IP-50	Channel spacing	10 / 12.5 / 25kHz
Temperature range	-30°C to +65°C	Rx Sensitivity	-120 dBm (10 dB S/N)
Case	aluminum with integrated DIN rail mounting	Tx Output Power	500mW
Connectors	replaceable cage clamps, 0,5mm <sup>2</sup> 1x TNC Antenna connector	Transmission distance	max. 20km (depends on topography and type of installation)
Power supply	6.2 V NiMH battery 3.1Ah + solar cell / mains adapter	Antenna	various models available
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)	Type approvals	ACMA Australia, Industry Canada, R&TTE, FCC Part 15, etc.
Sampling interval	user programmable for each channel	<b>Ordering information</b>	
Internal memory	1MB for up to 200,000 values	100.740.101	A740 addNODE Band 1
Resolution analog	12-bit	100.740.102	A740 addNODE Band 2
Resolution pulse counter	adjustable: 1.6Hz / 500Hz	100.740.103	A740 addNODE Band 3
		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