

A731 addRELAY

The A731 addRELAY has been developed as low-cost relay station to increase the range of an Adcon telemetry system.

The A731 shares its radio and major components with the A733 addWAVE, simplifying service and maintenance works. Depending on the available power source (solar panel, two solar panels, or mains adaptor) and the required transmission intervals, up to 25 RTUs can be routed through an A731 addRELAY.

Transmission range varies from 5 to 20km depending on antenna height and terrain.

Applications

- Dedicated relay station to increase system range
- For challenging topographical conditions
- To improve connection quality and stability



Technical data

Dimensions	160 x 60 x 80 mm	Frequency ranges	Band 1: 430 - 440MHz Band 2: 440 - 450MHz Band 3: 450 - 460MHz Band 4: 460 - 470MHz
Weight	1.150 g	Channel spacing	10 / 12,5 / 25kHz
Ingress Protection class	IP-67	Rx Sensitivity	-120 dBm (10 dB S/N)
Temperature range	-30°C to +65°C	Tx Output Power	500mW
Case	powder-coated aluminum	Transmission distance	max. 20km (depends on topography and type of installation)
Screw connection	flange socket of nickel-plated brass	Antenna	omni-directional, $\lambda/2$, +2dBi
Connectors (IP67 if properly mated or capped)	1x Binder M9 5-pin to solar cell / power supply 1x TNC Antenna connector	Type approvals	R&TTE, FCC Part 15, ACMA Australia, Industry Canada, etc.
Power supply	6,2 V NiMH battery 3,1Ah + solar cell / mains adapter	Ordering information	
I/O-Ports	none	100.731.131	A731 addRELAY Band 1
Internal memory	32KB	100.731.132	A731 addRELAY Band 2
Operating time (without charging of internal battery)	up to 20 days, depending on number of stations routed and polling rate	100.731.133	A731 addRELAY Band 3
		100.731.134	A731 addRELAY Band 4
		200.733.522	Solar panel, 460mA
		200.800.025	Y-cable 5pin to connect second solar cell