

A751 addRELAY

The A751 addRELAY was developed to extend the range of other Adcon short or long range UHF radio loggers at low cost. It houses the same 500mW radio as its larger brothers, A752 and A753 addWAVE RTUs, and thus provides nominal transmission distances of up to 20km. If installed well, ideally in an elevated position like on top of an antenna tower, e.g. of a GSM base station, or on the roof of a storage silo, an A751 addRELAY can achieve distances going well beyond this 20km limit.

All major components - case, battery, antenna, solar panels, etc. - are identical to those of the other RTUs - there is no need for dedicated spare parts. We recommend the usage of a dual solar panel setup or a mains power supply, if more than 10 RTUs shall be routed through one A751 addRELAY.

Installation is very easy. With all major components - CPU, radio and battery - packed into a single, compact aluminum case the A751 addRELAY only needs to be fixed to the mast. Connecting the solar panel will activate the RTU. No separate external enclosure is required.



Technical data

Dimensions	160 x 60 x 80 mm
Weight	1.100 g
Ingress Protection class	IP-67
Temperature range	-30°C ... +65°C
Case	powder-coated aluminum
Screw connections	flange sockets of nickel-plated brass, stainless cover screws
Connectors (IP67 if properly mated or capped)	1x Binder M9 5-pin to solar cell / power supply 1x TNC Antenna connector
Power supply	6,2 V NiMH battery 3.100 mAh + solar cell or mains adapter
Operating time (without charging of internal battery)	up to 15 days, depending on number of RTUs routed and their transmission rate
Frequency bands	4 x 10-MHz bands from 430 to 470MHz
Channel spacing	10 / 12,5 / 25kHz

Rx Sensitivity	-120 dBm (10 dB S/N)
Tx Output power	500mW
Transmission distance	max. 20km (depends on topography and type of installation)
Antenna	omni-directional, $\lambda/2$, +2dBi, rigid
Type approvals	FCC Part 15, ETSI EN300220, Industry Canada, ACMA Australia, etc.

Ordering information:

100.751.001	A751 addRELAY Band 1 430-440 MHz
100.751.002	A751 addRELAY Band 2 440-450 MHz
100.751.003	A751 addRELAY Band 3 450-460 MHz
100.751.004	A751 addRELAY Band 4 460-470 MHz
200.733.522	Solar Panel, 540mA
200.720.522	220V Mains power adapter Europe
200.720.523	115V Mains power adapter USA
200.720.525	220V Mains power adapter UK
200.720.526	220V Mains power adapter Australia