



The System of new A850 Telemetry Gateway

The A850 Telemetry Gateway is the core of every Adcon monitoring network, be it a pure GSM / GPRS network, a UHF radio network or a combination of both - it's the A850 that knows exactly when and how to retrieve data from each RTU. A network consisting of only GSM / GPRS RTU's requires only the A850 Telemetry Gateway, while a network using UHF radio RTU's also requires an A440 Wireless Modem. The A850 is available in several versions, managing from 5 up to 1.000 RTU's. Each version can easily be upgraded by software to support more RTU's.

What's new, compared to the A840?

During the 7 years of service of the A840 Telemetry Gateway we have gathered lots of experience with Base Stations, and the list of desirable improvements was long, including numerous requests from our customers. We have packed them all into the new A850! Here are the most important:

Comparison Table	A850	A840
Data Memory	256 MB	16 MB
Data Viewer	yes	no
Internal Battery	yes	yes
Internal Modem	no	yes
USB connector	yes	no
Multi-User Access	yes	only 2
Offline Configuration	yes	no
Gateway Locking	yes	no
Remote Update	yes	no
Support RTU's in various time zones	yes	no
Diagnostics of Com-Quality	yes	no
Call out from Gateway	yes	no
RTU, battery and sensor tracking	yes	no
Send RTU commands from the GUI	yes	no
Secure Socket Tunnels	yes	no
Operating System	Linux	Linux



Technical Specifications of A850

Dimensions	186 x 259x 47 mm
Weight	1.500g
Connectors	10Base-T Ethernet, RS-232, RS-485, 2 x USB
Analog Modem	external via USB
Micro Processor	Cirrus Logic 32-bit ARM
Memory	256MB Flash, 32MB RAM
Operating System	Linux OS 2.4 Kernel
Power Supply	85 - 240 V AC; an integrated 8.4V NiMH battery with 4.500mAh serves as uninterruptible power supply
Operating Temperature	-10°C to +55°C

Technical Specifications of A440

Dimensions	119 x 79x 60 mm
Weight	590g
Connector	1 x RS-485 zu A840
IP Protection	IP67
Power Supply	via the RS-485 connection to the A840 Telemetry Gateway
Mounting	Mast mounting bracket
Operating Temperature	-30°C to +60°C
Tx Output power	500mW e.r.p.
Rx Sensitivity	-120dBm (10 dB S/N)
Channel spacing	12.5 / 25 kHz (factory preset)
Antenna	Omni-directional, 0dB
Antenna connector	TNC with external seal
Frequencies	430 - 470MHz
Approvals	R&TTE, CE, FCC, Ind.Canada, AUS