Technical Data
A850 Telemetry Gateway

The Core

- **Device type**
  Base Station for Adcon Wireless Sensor Networks

- **Product highlights**
  Manages up to 1000 Adcon RTUs, easy to operate via graphical user interface, integrated uninterruptible power supply (max. 5h), 1GB data memory sufficient for 200 stations for 4 weeks, embedded Linux OS

- **IP-communication**
  Connects seamlessly into Ethernet networks

- **Interfaces**
  2x USB; 1x 100MBit Ethernet; 1x RS-232; 1x RS-485 (to A440 Wireless Modem)

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.

A850 Telemetry Gateway	
Dimensions	182 x 260x 52 mm
Weight	1.862g
Connectors	1 x 100Base-T Ethernet 1 x RS-232 (ext. modems) 1 x RS-232 (Console) 1 x RS-485 (Radio Modem) 2 x USB (ext. modems) 1 x Mains Power

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Analog Modem	external via USB or RS-232
Micro Processor	Cirrus Logic 32-bit ARM
Memory	1GB Flash, 32MB RAM
Operating System	Linux OS 2.4 Kernel
Power Supply	90 … 240 V AC; an integrated 8.4V NiMH battery with 4.500mAh serves as uninterruptible power supply
Operating Temperature	-10°C … +55°C

A440 Wireless Modem	
Dimensions	119 x 79x 60 mm
Weight	590g
Connectors	1 x RS-485 to connect to A850 1 x TNC to antenna
IP Protection	IP-67
Power Supply	via the RS-485 connection to the A850 Telemetry Gateway
Mounting	Mast mounting bracket
Operating Temperature	-30°C … +60°C
Tx Output power	500mW e.r.p.
Rx Sensitivity	-120dBm (10 dB S/N)
Channel spacing	10 / 12.5 / 25 kHz (factory preset)
Antenna	Omni-directional, 0dB
Antenna connector	TNC with external seal
Frequencies	430 … 470MHz (in 4 bands of 10MHz each)
Approvals	R&TTE, CE, FCC, Ind.Canada, ACMA Australia