

A840

TELEMETRY GATEWAY

GENERAL

The A840 Telemetry Gateway consists of two functionally separate units, the A840 central processing unit and the A440 wireless modem. The A840 Telemetry Gateway controls a network of up to 200 Adcon RTU's (Remote Telemetry Units). Data is retrieved automatically, temporarily stored in local memory, and delivered to a PC via serial or Ethernet interface. A built-in analogue V.34 modem allows for a convenient remote inquiry. Equipped with 16 MB onboard data storage it is able to store 15-minute-data from 200 stations for approx. 10 days. In cases of power outage a built-in battery ensures continuous operation preventing data loss. The CPU is prepared for any future software update. The A840 Telemetry Gateway communicates with roof-mounted A440 wireless modem via a serial RS-485 connection. The flexible antenna cable can be easily run up to a length of 30 meters. The A440 comes in a robust IP-65/67 housing and is compatible to any Adcon radio station.

MAIN CHARACTERISTICS A840:

Dimensions:	186 x 259 x 47 mm
Connectors:	10 Base-T Ethernet connector RS-232, RS-485, V.34 Modem connector
Energy supply:	85 to 240 Volt
Memory:	16 MB Flash, 16 MB RAM
Micro processor:	Cirrus Logic 32-bit ARM micro processor
Operating system:	Linux OS 2.4 Kernel
Temperature range:	-10°C to +55°C

MAIN CHARACTERISTICS A440:

Dimensions:	119 x 79 x 60 mm
Protection type:	IP-65/67
Radio distance:	up to 20 km
Interface:	RS-485
Radio module:	Compact radio transceiver (ETSI 300 113, ACA, FCC, Industry Canada and CE approval)
Operating frequency:	430 to 470 MHz
Bandwidth:	25 kHz / 12.5 kHz
Tx output power:	500 mW
Rx sensitivity:	-120 dBm (10 dB S/N)
Coding:	GMSK, MSK; 1.500 bps (average)
Temperature range:	-30°C bis +60°C

ADCON
TELEMETRY

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SMART WIRELESS SOLUTIONS