The A753 addWAVE GSM/GPRS was developed to meet the most stringent requirements towards a universal telemetry station: high resolution, WMO compliance, synchronous and asynchronous monitoring, lots of memory, 60 I/O channels, and much more. It comes in a robust aluminum housing, with integrated battery and quad-band Motorola GPRS modem. Power is supplied by a solar panel the size of a postcard.

Applications
- Allround-RTU, extremely compact, extremely rugged, extremely low-power
- WMO-compliant weather recording
- Flood warning, dam monitoring
- Agriculture & public water supply
- Science, research & development, and much more

Technical data

- Dimensions: 160 x 60 x 80 mm
- Weight: 1.200 gr.
- Ingress Protection class: IP-67
- Temperature range: -30°C to +65°C
- Case: powder-coated aluminum
- Screw connections: flange sockets of nickel-plated brass, stainless cover screws
- Connectors (all connectors IP67 if properly mated or capped):
  - 4x Binder M9 7-pin to sensors
  - 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 / mains adapter
- I/O-Ports:
  - 12x analog in (0 ... 1/2,5 VDC ; including 3x 0 ... 150mV )
  - 4x pulse counter
  - 4x digital in/out (0 ... 3V TTL)
  - 40x SDI-12 values
- Sensor excitation:
  - unregulated batt. 5,6V ... 7,2V
  - regulated from 3,3V ... 5,5V
- Sampling interval: user specific (from 10sec. to 12h)
- Measuring method: synchronous & asynchronous
- Internal memory: 2MB for up to 500,000 values
- Resolution: 16-Bit @ 0 ... 2,5 V ; 2x 50Hz and 2x 500Hz pulse counter
- Wind Port C: measures wind 4x per second and calculates 3-sec. average
- Rain Port D: time stamps every pulse
- Digital events: records and time stamps every status change on a digital input
- Operating time (without charging of internal battery): in standard mode up to 21 days, in power-save mode up to 6 months; depends on slot-time, transmission rate, and sensors
- Frequency range: 850 / 900 / 1800 / 1900 MHz
- Rx Sensitivity: -106 dBm
- Tx Output Power: max. 2 W (depends on frequency)
- Transmission distance: max. 36km as per GSM standard
- Expansion (optional): internal Modbus IF via RS 485
- Antenna: omnidirectional quad-band, 2dBi
- Type approvals: R&TTE, FCC Part 15, ACMA Australia, Industry Canada, etc.

Ordering information:
- 100.753.010: A753 addWAVE GSM/GPRS
- 200.733.522: Solar Panel, 460mA

© 05/2009 Adcon Telemetry GmbH | Contents subject to modifications