

# Technical Data

## A755 addSDI GPRS V2



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- **Device type**  
Remote Transmission Unit
- **Product highlights**  
IP-67 ;Ultra low power design ;Cost effective solution in case of using digital sensors (SDI-12 / Modbus), digital I/O's and counters ;Large integrated memory (2MB equals 6 months of data for usual 15 minute interval values)
- **IP-communication**  
GPRS, 3G
- **Sensor interfaces**  
2 pulse counter (2x 30Hz counters): 2 digital I/O (expandable with A553 up to 14 digital I/O's): 40 SDI-12 values: Modbus support via adapter

The A755 addSDI GPRS RTU in its version 2 was developed to provide users of SDI-12 sensors with an inexpensive means to log and transmit up to 40 SDI-12 values of environmental data, while at the same time providing 2 pulse inputs, e.g. for water meters and rain gauges, and 2 digital TTL ports which are custom configurable either as in- or as outputs.

#### Mechanics:

|                  |                         |
|------------------|-------------------------|
| Case             | Aluminum, powder coated |
| Protection class | IP-67                   |

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We reserve the right to make technical changes and improvements without notice. V-01/08/2019  
ADCON Telemetry, Austria

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|                                  |   |
|----------------------------------|---|
| Dimensions and weight            | 160 x 60 x 80 mm / 6.3 x 2.4 x 3.1 inches<br>1150g / 2.4lb.   |
| Connectors for sensors and power | 2 x M9 female 7-pin to sensor<br>1 x M9 female 5-pin to power<br>Made in Germany by Binder<br>IP-67 protection class<br>Sockets: brass, nickel plated, with gold plated socket contacts<br>Protective cap |
| Antenna connector                | TNC with external seal, water tight , Made in Germany   |
| Mounting                         | Mast mounting bracket integrated  |
| Operating temperature            | -20°C ... +65°C / -4°F ... 149°F<br>-30°C ... +75°C / -22°F ... 167°F extended temp. range upon request   |

| Logger:           |  |
|-------------------|--|
| SDI-12            | Up to 40 values can be addressed   |
| Modbus            | optional; via internal interface board   |
| Counter Inputs    | 2 for standard reed contacts; electronically debounced, e.g. for rain gauges; max frequency up to 50 pulses per second; min. pulse length 10ms, min. break time 10ms |
| Digital I/O ports | 1 x 3V TTL and 1 x 5V TTL<br>Both I/Os configurable as either inputs or outputs  |
| Data Memory       | 2MB for up to 500.000 readings;<br>4MB: optional - up to 1 Mio readings; this is not a retrofit, but needs to be installed ex factory                                |

| Data transmission:        |  |
|---------------------------|--|
| Frequencies               | 900 & 1800 MHz (Europe) and<br>850 & 1900 MHz (Americas)                                   |
| Modem                     | Telit G24<br>Telit H24 upon request  |
| SIM-Cards                 | small footprint  |
| Security                  | SIM-Cards are PIN-Code protected   |
| Connection types          | - GSM: CSD Circuit Switched Data<br>- GPRS<br>- UMTS: optional                             |
| GPRS Connection Frequency | User selectable:<br>- permanent connection<br>- connect from 1 x per minute to 1 x per day |
| Antenna                   | Omnidirectional, +2dBi, TNC, waterproof  |

| General:     |  |
|--------------|--|
| Power supply | internal 6.2V battery, charged by solar panel or mains adaptor;<br>optional: non-rechargeable Lithium-Thionyl battery (to operate the RTU w/o solar panel) |

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|                |  |
|----------------|--|
| Battery        | Panasonic high-temperature industrial grade NiMH battery, 3.300mAh |
| Type approvals | FCC, R&TTE, CE, Industry Canada, ACMA Australia                    |