

# PTT06-S

## ARGOS/SCD Transmitter

- Certified for use with ARGOS and SCD-1 satellites
- Configurable via RS-232 serial port
- 2 levels of UFH power
- Selectable frequencies
- Compact and robust design



The PPT06-S transmitter is a compact and robust satellite transmitter for ARGOS and Brazilian SCD satellite systems. Integrated to Vaisala HydroMet Systems MAWS it allows the host systems to report data via ARGOS and SCD-1 satellites even from very remote locations. The data reports are formatted and transmitted according to the requirements of the satellite systems. The transmission interval(s) is adjustable by the user. The transmitter will send data at the rate of 400 bps, and the duration of the transmission is typically less than one second.

The transmitter operation modes are filed configurable via asynchronous RS-232 serial line with the ASCII control commands. The host equipment can select the frequencies between the ARGOS and SCD-1 from the preset tables.

The PTT06-S transmitter has an easy DIN - rail installation in the MAWS enclosures.

## Specifications:

|                              |   |
|------------------------------|---|
| Frame of Tx-messages:        | According to ARGOS and/or SCD-1 system requirements   |
| Transmission interval:       | Adjustable from 30 - 300 seconds in one second steps  |
| Transmission modes:          | ARGOS transmissions only<br>SCD-1 transmissions only<br>ARGOS and SCD-1 transmissions on alternate mode           |
| Data buffering:              | Previous data are kept valid until updated by new data. Up to 8 messages transmitted in rotating sequence         |
| RF Power Output:             | Software selectable<br>ARGOS: 1.8 Watts (32 dBm)<br>SCD-1: Adjustable in factory 1.8 5 W (32 - 36 dBm)            |
| Output Impedance:            | 50 Ohms   |
| Data rate to satellite:      | 400+0.01 bps  |
| Frequency coverage:          | ARGOS: 401.65 (nominal) MHz, channeled in 500 Hz steps<br>SCD-1: 401.620 MHz (nominal), channeled in 500 Hz steps |
| Frequency stability:         |   |
| over temperature:            | ± 0.5 ppm in range of 0° C to +40° C<br>± 2 ppm in range of - 40° C to +65° C                                     |
| long-term                    | 2 ppm   |
| Input voltage:               | 10.5 - 14.5 VDC   |
| Current consumption:         |   |
| Stand-by:                    | < 1 mA  |
| 1.8 W transmission:          | < 800 mA (12 VDC)   |
| 4 W transmission             | < 1.2 A (12 VDC)  |
| Operating temperature range: | - 40° C to +65° C   |
| Storage temperature range:   | - 55° C to +75° C   |
| Operating relative humidity: | 0 to 100 % (non-condensing)   |
| Dimensions:                  | 150x45x35 (in DIN rail mounted enclosure)   |