

**Product information**

**Wireless data loggers GHM DeltaBus**

**Wireless data logger  
 HD35EDW7PRTC  
 HD35EDLW7PRTC**



- **Waterproof solar radiation and solar panel temperature wireless data logger**

**Characteristics**

Solar radiation and solar panel temperature wireless data logger. IP 67 waterproof housing. Custom LCD display (only with option L). It stores the measures in its internal memory (36,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

Three inputs with M12 connector: one for the TP35878ISS... Pt100 temperature probe for solar panel and one for the pyranometer. Calculated quantities: daily solar radiation in Wh/m<sup>2</sup> (Wh = watt hour).

The pyranometer mV signal is also displayed. Acoustic alarm with internal buzzer. Configuration via HD35AP S software. Powered by the internal battery. Installation: wall mounting with HD35.24W flange (optional) or fixing to a Ø 40 mm mast with HD2003.77/40 clamping (optional). Protection shield against solar radiations HD9217TF1 (optional) for outdoor installation. External antenna for outdoor installation with protection shield against solar radiations. Internal antenna for indoor installation.

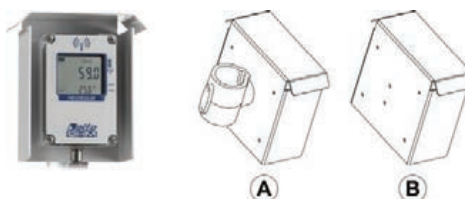
**Technical data**

**Solar radiation**  
 Sensor : Thermopile  
 Measuring range : 0...2000 W/m<sup>2</sup>  
 Resolution : 1 W/m<sup>2</sup>  
 Sensitivity : Configurable in mV/(kW m<sup>-2</sup>)

**Solar panel temperature**  
 Sensor : Pt100 1/3 DIN  
 Measuring range : -40...+85 °C  
 Resolution : 0.1 °C  
 Accuracy : 1/3 DIN  
 Long-term stability : 0.1 °C / year

**Instrument**  
 Transmission frequency : Factory configurable at choice among: 868 MHz, 902-928 MHz, 915-928 MHz, 921-928 MHz or 915,9-929,7 MHz depending on the frequency in use in the country of installation  
 Transmission range : In open field:  
 300 m (E, J)/ 180 m (U) with internal antenna.  
 > 500 m (E, J, U) with external antenna.  
 (can be reduced in presence of obstacles or adverse atmospheric conditions)  
 Logging interval : 1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min  
 Power supply : Non rechargeable lithium thionil chloride (Li-SOCl<sub>2</sub>) internal battery, 3.6 V, AA format, 2-pole Molex 5264 connector  
 Battery life : 2 years typical (without repeaters, measurement interval 5 s and log interval 30 s)  
 Operating conditions : -20...+70 °C / 0...100 %RH non condensing  
 Dimensions : 129 x 80 x 55 mm (excluding probes and external antenna)  
 Weight : 250 g approx.  
 Housing : Polycarbonate  
 Protection degree : IP 67

**HD9217TF1 solar radiations shield options**



**A** = for fixing to a Ø 40 mm mast (with HD2003.77/40 clamping)  
**B** = wall mount (without clamping)

## Product information

## Wireless data loggers GHM DeltaBus

### Sensors

**LP PYRA 03:** second Class pyranometer according to ISO 9060. Output in  $\mu V/(Wm^{-2})$ . Supplied with levelling device, connector and Calibration Report. On request 5 or 10m cables with connector and shade disk.

**TP35878ISS.5:** Contact temperature sensor for solar panel. 1/3 DIN Pt100 sensor. Temperature working range  $-40...+85\text{ }^{\circ}\text{C}$ . 5 m cable. 4 pole M12 connector.

**TP35878ISS.10:** Contact temperature sensor for solar panel. 1/3 DIN Pt100 sensor. Temperature working range  $-40...+85\text{ }^{\circ}\text{C}$ . 10 m cable. 4 pole M12 connector.



### Ordering codes

HD35ED -  W7PRTC.

<b>1.</b>	<b>LCD</b>	
	0	without LCD
	L	with custom LCD
<b>2.</b>	<b>Radio frequency</b>	
	J	915.9-929.7 MHz (Japan)
	E	868 MHz (Europe)
	U	902-928 MHz (U.S.A. and Canada) reducible to 915-928 MHz (Australia) or 921-928 MHz (New Zealand)