

## TECHNICAL SPECIFICATIONS

<i>Power supply</i>	If the rechargeable battery is used: 18...30 Vdc If the rechargeable battery is not used: 7...30 Vdc without ETHERNET module 12...30 Vdc with ETHERNET module
<i>Power consumption @ 12 Vdc</i>	< 3 mA without ETHERNET module and with no GSM/3G activity ~ 200 mA with ETHERNET module and with no GSM/3G activity < 1 A peak during GSM/3G activity
<i>Battery</i>	Optional internal lead 12 V / 3.4 Ah. Maximum charge current 1 A. The autonomy depends on the number and type of sensors connected.
<i>Switched power supply output</i>	If the data logger is powered by a solar panel (+Vpanel input), the output is equal to the voltage of the internal lead battery (nominal 12 V). If the data logger is powered by the +Vdc input, the output is equal to the voltage of the +Vdc input. The output is active only when the external sensors have to be powered.
<i>Antenna</i>	External
<i>Measuring interval</i>	1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
<i>Logging interval</i>	1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
<i>Internal memory</i>	Circular management or stop logging if memory is full. Number of samples: from 242,850 to 858,070 depending on the number of detected quantities.
<i>Alarm</i>	Sending of alarm e-mail and SMS. Two voltage-free normally open (NO) contact alarm outputs. Max 300 mA @ 30 Vdc resistive charge.
<i>Display</i>	<b>Optional</b> custom LCD
<i>LED indicator</i>	2-color LED: power on (blinks red), GSM/3G activity (blinks green)
<i>Connection to PC</i>	USB port with mini-USB connector
<i>ETHERNET connection</i>	RJ45 connector (only if the optional ETHERNET module is present)
<i>Internal clock drift</i>	± 2 ppm (0...+40 °C) / ± 5 ppm (-40...+70 °C)
<i>Operating conditions</i>	-40...+70 °C / 0...100 %RH for the version without LCD -20...+70 °C / 0...100 %RH for the version with LCD
<i>Weight</i>	1 kg approx.
<i>Housing</i>	Dimensions: 270 x 170 x 110 mm (excluding external antenna) Material: Polycarbonate (PC) Protection degree: IP 65 (with protective cap on the USB connector)
<i>Installation</i>	Fixing to a 40 mm diameter mast.

## Measurement characteristics:

<b>Temperature</b> (instrument in line with the probe HP3517WTC... or TP350NTC...)	
<i>Sensor</i>	NTC 10 kΩ @ 25 °C
<i>Measuring range</i>	-40...+105 °C
<i>Resolution (of instrument)</i>	0.1 °C
<i>Accuracy</i>	± 0.3 °C in the range 0...+70 °C / ± 0.4 °C outside
<i>Stability</i>	0.1 °C / year
<b>Relative Humidity</b> (instrument in line with the probe HP3517WTC ...)	
<i>Sensor</i>	Capacitive
<i>Measuring range</i>	0...100 %RH
<i>Resolution (of instrument)</i>	0.1 %
<i>Accuracy</i>	± 1.8 %RH (0...85 %RH) / ± 2.5 %RH (85...100 %RH) @ T=15...35 °C ± (2 + 1.5% measure)% @ T=remaining range
<i>Sensor operating temperature</i>	-40...+80 °C
<i>Response time</i>	T <sub>90</sub> < 20 s (air speed = 2 m/s, without filter)
<i>Temperature drift</i>	±2% over the whole operation temperature range
<i>Stability</i>	1% / year

