HD35EDW1TV – HD35EDLW1TV
Waterproof humidity wireless data logger with fixed vertical probe

Humidity wireless data logger. **IP 67** waterproof housing. Custom LCD display (only with **option L**). It stores the measures in its internal memory (68,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

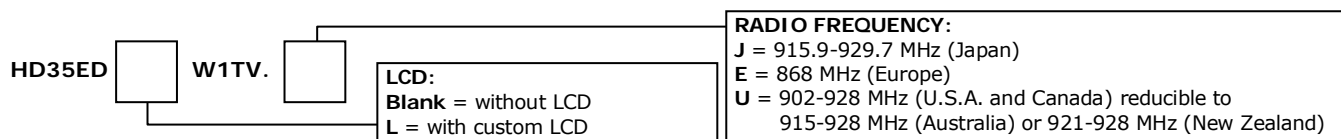Relative humidity fixed vertical probe with **high accuracy R.H. sensor**.

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 ∅ 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 CHARACTERISTICS

Humidity	
Sensor	Capacitive
Measuring range	0…100% RH
Resolution	0.1% RH
Accuracy (@ 23 °C)	± 1.5 %RH (0..90 %RH) ± 2 %RH (remaining range)
Sensor operating temperature	-20…+80 °C
Temperature drift	±2% over the whole operating temperature range
Long-term stability	1% / 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 thyonil chloride (Li-SOCl$_2$) 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	170 x 80 x 55 mm (excluding external antenna)
Weight	250 g approx.
Housing	Polycarbonate
Protection degree	IP 67

DATA LOGGER ORDERING CODES

HD35ED ☐ W1TV. ☐

LCD:
Blank = without LCD
L = with custom LCD

RADIO FREQUENCY:
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)

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Siège social Lyon / 9 rue de Catalogne - Parc des Pivolles - 69153 Décines Cedex / +33 (0)4 72 15 88 70 / contact@c2ai.com

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contact@c2ai.com   www.c2ai.com

HD35EDW1TVI – HD35EDLW1TVI
Waterproof humidity wireless data logger
with fixed vertical probe

Humidity wireless data logger. **IP 67** waterproof housing. Custom LCD display (only with **option L**). It stores the measures in its internal memory (68,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

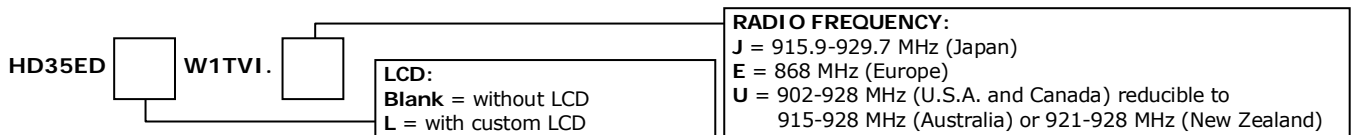Relative humidity fixed vertical probe.

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 ⌀ 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 CHARACTERISTICS

Humidity	
Sensor	Capacitive
Measuring range	0…100% RH
Resolution	0.1% RH
Accuracy (@ 23 °C)	± 1.8 %RH (0..80 % RH) ± [1.8 + 0.11 * (RH -80)] % RH (remaining range)
Sensor operating temperature	-40…+105 °C (R.H. max=[100-2*(T-80)] @ T=80…105 °C)
Temperature drift	±2% over the whole operating temperature range
Long-term stability	0.5% / 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 thyonil chloride (Li-SOCl$_2$) 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	170 x 80 x 55 mm (excluding external antenna)
Weight	250 g approx.
Housing	Polycarbonate
Protection degree	IP 67

DATA LOGGER ORDERING CODES

HD35ED ☐ W1TVI. ☐

LCD:
Blank = without LCD
L = with custom LCD

RADIO FREQUENCY:
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)

HD35EDW1NTC – HD35EDLW1NTC
Waterproof temperature and humidity wireless data logger
for T/RH combined probe with cable

Temperature and humidity wireless data logger. **IP 67** waterproof housing. Custom LCD display (only with **option L**). It stores the measures in its internal memory (24,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

One input with M12 connector for the **HP3517TC…** temperature and relative humidity combined probe with **NTC10KΩ** temperature sensor and **high accuracy R.H. sensor**.

Calculated quantities: dew point, wet bulb temperature, absolute humidity, mixing ratio, partial vapour pressure.
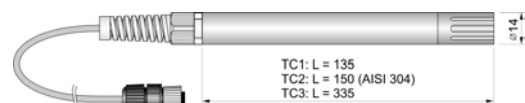
Acoustic alarm with internal buzzer. Configuration via **HD35AP-S** software. Powered by the internal battery. Installation: wall mounting with HD35.24W flange (**optional**) or fixing to a ⌀ 40 mm mast with HD2003.77/40 clamping (**optional**). Protection shield against solar radiations HD9217TF1 (**optional**) for outdoor installation. External antenna for outdoor installation with protection shield against solar radiations. Internal antenna for indoor installation.

TECHNICAL CHARACTERISTICS

Humidity	
Sensor	Capacitive
Measuring range	0…100% RH
Resolution	0.1% RH
Accuracy (@ 23 °C)	± 1.5 %RH (0..90 %RH) ± 2 %RH (remaining range)
Sensor operating temperature	-20…+80 °C
Temperature drift	±2% over the whole operating temperature range
Long-term stability	1% / year
Temperature	
Sensor	NTC 10 kΩ @ 25 °C
Measuring range	-40…+105 °C
Resolution	0.1 °C
Accuracy	± 0.3 °C in the range 0…+70 °C ± 0.4 °C outside
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 thyonil chloride (Li-SOCl$_2$) 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 probe and external antenna)
Weight	250 g approx.
Housing	Polycarbonate
Protection degree	IP 67

PROBES

HP3517TC…: temperature and relative humidity combined probe with high accuracy R.H. sensor and NTC10KΩ @ 25 °C temperature sensor. 4-pole M12 connector.

TC1: L = 135
TC2: L = 150 (AISI 304)
TC3: L = 335
⌀14

HP3517 ☐ . ☐

CABLE LENGTH: **2** = 2 m, **5** = 5 m, **10** = 10 m

STEM LENGTH: **TC1**=135mm, **TC2**=150mm, **TC3**=335mm

TP35N1…: stainless steel temperature probe. NTC10KΩ @ 25 °C sensor. Operating temperature: -20…+85 °C. Dimensions: ⌀ 5 x 40 mm. 4-pole M12 connector.

TP35N1. ☐ /C **3** = cable 3m, **5** = cable 5m, **10** = cable 10m

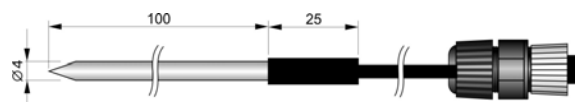**TP35N2…**: stainless steel temperature probe. NTC10KΩ @ 25 °C sensor. Operating temperature: 0…+70 °C. Dimensions ⌀ 6 x 50 mm. Double insulation. 4-pole M12 connector.

TP35N2. ☐ /C **3** = cable 3m, **5** = cable 5m, **10** = cable 10m

TP35N5…: stainless steel penetration temperature probe. NTC10KΩ @ 25 °C sensor. Operating temperature: -20…+105 °C. Dimensions: ⌀ 4 x 100 mm. 4-pole M12 connector.

TP35N5. ☐ /C **3** = cable 3m, **5** = cable 5m

Note: connecting a temperature only probe, the humidity measurements will be in error.

DATA LOGGER ORDERING CODES

HD35ED ☐ W1NTC. ☐

LCD: **Blank** = without LCD **L** = with custom LCD

RADIO FREQUENCY: **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)

HD35EDW17PTC – HD35EDLW17PTC
Waterproof temperature and humidity wireless data logger
for T/RH combined probe with cable

Temperature and humidity wireless data logger. **IP 67** waterproof housing. Custom LCD display (only with **option L**). It stores the measures in its internal memory (24,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

One input with M12 connector for the **HP3517ETC**... temperature and relative humidity combined probe with **Pt100** temperature sensor and **high accuracy R.H. sensor**.

Calculated quantities: dew point, wet bulb temperature, absolute humidity, mixing ratio, partial vapour pressure.
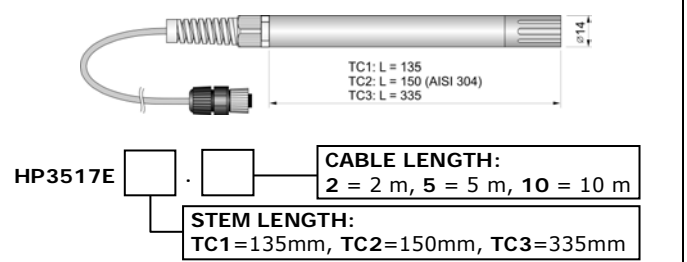
Acoustic alarm with internal buzzer. Configuration via **HD35AP-S** software. Powered by the internal battery. Installation: wall mounting with HD35.24W flange (**optional**) or fixing to a ∅ 40 mm mast with HD2003.77/40 clamping (**optional**). Protection shield against solar radiations HD9217TF1 (**optional**) for outdoor installation. External antenna for outdoor installation with protection shield against solar radiations. Internal antenna for indoor installation.
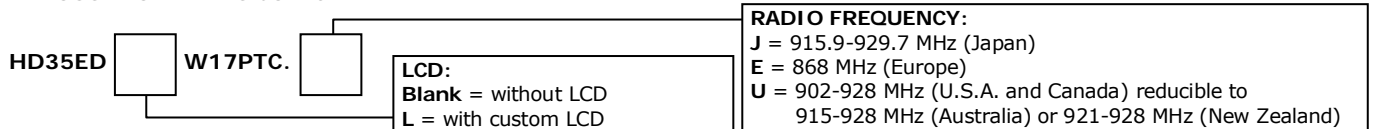
TECHNICAL CHARACTERISTICS

Humidity	
Sensor	Capacitive
Measuring range	0…100% RH
Resolution	0.1% RH
Accuracy (@ 23 °C)	± 1.5 %RH (0..90 %RH) ± 2 %RH (remaining range)
Sensor operating temperature	-40…+150 °C
Temperature drift	±2% over the whole operating temperature range
Long-term stability	1% / year
Temperature	
Sensor	Thin film 1/3 DIN Pt100
Measuring range	-40…+150 °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 thyonil chloride (Li-SOCl$_2$) 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 probe and external antenna)
Weight	250 g approx.
Housing	Polycarbonate
Protection degree	IP 67

PROBES

HP3517ETC...: temperature and relative humidity combined probe with high accuracy R.H. sensor and Pt100 temperature sensor. 4-pole M12 connector.

TC1: L = 135
TC2: L = 150 (AISI 304)
TC3: L = 335

HP3517E ☐ . ☐

CABLE LENGTH:
2 = 2 m, **5** = 5 m, **10** = 10 m

STEM LENGTH:
TC1=135mm, **TC2**=150mm, **TC3**=335mm

DATA LOGGER ORDERING CODES

HD35ED ☐ W17PTC. ☐

LCD:
Blank = without LCD
L = with custom LCD

RADIO FREQUENCY:
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)

HD35EDW1NTV – HD35EDLW1NTV
Waterproof temperature and humidity wireless data logger
with T/RH fixed vertical probe

Temperature and humidity wireless data logger. **IP 67** waterproof housing. Custom LCD display (only with **option L**). It stores the measures in its internal memory (24,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

Temperature and relative humidity fixed vertical probe with **NTC10KΩ** temperature sensor and **high accuracy R.H. sensor**.

Calculated quantities: dew point, wet bulb temperature, absolute humidity, mixing ratio, partial vapour pressure.

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 ⌀ 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 CHARACTERISTICS

Humidity	
Sensor	Capacitive
Measuring range	0…100% RH
Resolution	0.1% RH
Accuracy (@ 23 °C)	± 1.5 %RH (0..90 %RH) ± 2 %RH (remaining range)
Sensor operating temperature	-20…+80 °C
Temperature drift	±2% over the whole operating temperature range
Long-term stability	1% / year
Temperature	
Sensor	NTC 10 kΩ @ 25 °C
Measuring range	-40…+105 °C
Resolution	0.1 °C
Accuracy	± 0.3 °C in the range 0…+70 °C ± 0.4 °C outside
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 thyonil chloride (Li-SOCl$_2$) 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	170 x 80 x 55 mm (excluding external antenna)
Weight	250 g approx.
Housing	Polycarbonate
Protection degree	IP 67

DATA LOGGER ORDERING CODES

HD35ED ☐ W1NTV. ☐

LCD:
Blank = without LCD
L = with custom LCD

RADIO FREQUENCY:
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)

HD35EDW1NTVI – HD35EDLW1NTVI
Waterproof temperature and humidity wireless data logger
with T/RH fixed vertical probe

Temperature and humidity wireless data logger. **IP 67** waterproof housing. Custom LCD display (only with **option L**). It stores the measures in its internal memory (24,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

Temperature and relative humidity fixed vertical probe with temperature sensor integrated in the R.H. module.

Calculated quantities: dew point, wet bulb temperature, absolute humidity, mixing ratio, partial vapour pressure.
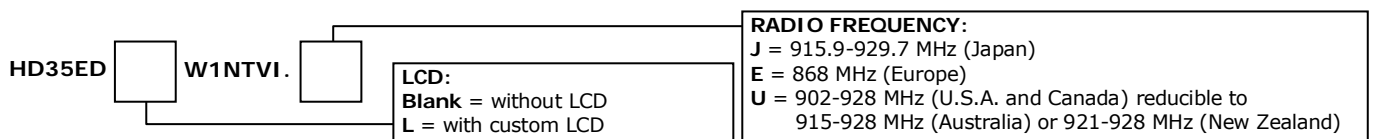
Acoustic alarm with internal buzzer. Configuration via **HD35AP-S** software. Powered by the internal battery. Installation: wall mounting with HD35.24W flange (**optional**) or fixing to a ⌀ 40 mm mast with HD2003.77/40 clamping (**optional**). Protection shield against solar radiations HD9217TF1 (**optional**) for outdoor installation. External antenna for outdoor installation with protection shield against solar radiations. Internal antenna for indoor installation.

TECHNICAL CHARACTERISTICS

Humidity	
Sensor	Capacitive
Measuring range	0…100% RH
Resolution	0.1% RH
Accuracy (@ 23 °C)	± 1.8 %RH (0..80 % RH) ± [1.8 + 0.11 * (RH -80)] % RH (remaining range)
Sensor operating temperature	-40…+105 °C (R.H. max=[100-2*(T-80)] @ T=80…105 °C)
Temperature drift	±2% over the whole operating temperature range
Long-term stability	0.5% / year
Temperature	
Sensor	Sensor integrated in humidity module
Measuring range	-40…+105 °C
Resolution	0.1 °C
Accuracy	± 0.2 °C in the range 0…+60 °C ± (0.2 – 0.05 * T) °C in the range T=-40…0 °C ± [0.2 + 0.032 * (T-60)] °C in the range T=+60…+105 °C
Long-term stability	0.05 °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 thyonil chloride (Li-SOCl$_2$) 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	170 x 80 x 55 mm (excluding external antenna)
Weight	250 g approx.
Housing	Polycarbonate
Protection degree	IP 67

DATA LOGGER ORDERING CODES

HD35ED [ ] W1NTVI. [ ]

LCD:
Blank = without LCD
L = with custom LCD

RADIO FREQUENCY:
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)

HD35EDW1N/2TC – HD35EDLW1N/2TC
Waterproof temperature and humidity wireless data logger
for T/RH combined probe and temperature probe with cable

Temperature and humidity wireless data logger. **IP 67** waterproof housing. Custom LCD display (only with **option L**). It stores the measures in its internal memory (22,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

Two inputs with M12 connector for the **HP3517TC**... temperature and relative humidity combined probe with **NTC10KΩ** temperature sensor and **high accuracy R.H. sensor**, and for the temperature only probe with **NTC10KΩ** sensor.

Calculated quantities: dew point, wet bulb temperature, absolute humidity, mixing ratio, partial vapour pressure.
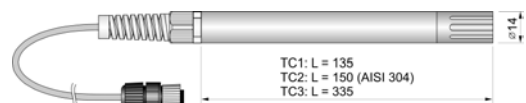
Acoustic alarm with internal buzzer. Configuration via **HD35AP-S** software. Powered by the internal battery. Installation: wall mounting with HD35.24W flange (**optional**) or fixing to a ∅ 40 mm mast with HD2003.77/40 clamping (**optional**). Protection shield against solar radiations HD9217TF1 (**optional**) for outdoor installation. External antenna for outdoor installation with protection shield against solar radiations. Internal antenna for indoor installation.

TECHNICAL CHARACTERISTICS

Humidity	
Sensor	Capacitive
Measuring range	0…100% RH
Resolution	0.1% RH
Accuracy (@ 23 °C)	± 1.5 %RH (0..90 %RH) ± 2 %RH (remaining range)
Sensor operating temperature	-20…+80 °C
Temperature drift	±2% over the whole operating temperature range
Long-term stability	1% / year
Temperature	
Sensor	NTC 10 kΩ @ 25 °C
Measuring range	-40…+105 °C
Resolution	0.1 °C
Accuracy	± 0.3 °C in the range 0…+70 °C ± 0.4 °C outside
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 thyonil chloride (Li-SOCl$_2$) 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

PROBES

HP3517TC...: temperature and relative humidity combined probe with high accuracy R.H. sensor and NTC10KΩ @ 25 °C temperature sensor. 4-pole M12 connector.


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HP3517 [ ] . [ ]
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TC1: L = 135
TC2: L = 150 (AISI 304)
TC3: L = 335
∅14

CABLE LENGTH:
2 = 2 m, **5** = 5 m, **10** = 10 m

STEM LENGTH:
TC1=135mm, **TC2**=150mm, **TC3**=335mm

TP35N1...: stainless steel temperature probe. NTC10KΩ @ 25 °C sensor. Operating temperature: -20…+85 °C. Dimensions: ∅ 5 x 40 mm. 4-pole M12 connector.


```
TP35N1. [ ] /C [ ]
```
3 = cable 3m, **5** = cable 5m, **10** = cable 10m

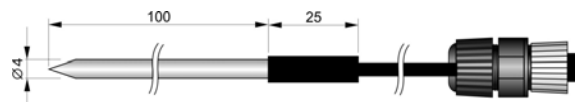**TP35N2**...: stainless steel temperature probe. NTC10KΩ @ 25 °C sensor. Operating temperature: 0…+70 °C. Dimensions ∅ 6 x 50 mm. Double insulation. 4-pole M12 connector.


```
TP35N2. [ ] /C [ ]
```
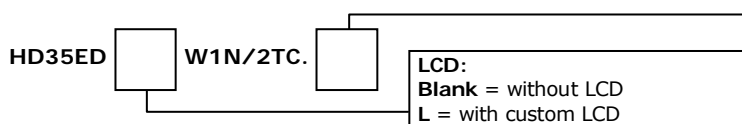**3** = cable 3m, **5** = cable 5m, **10** = cable 10m

TP35N5...: stainless steel penetration temperature probe. NTC10KΩ @ 25 °C sensor. Operating temperature: -20…+105 °C. Dimensions: ∅ 4 x 100 mm. 4-pole M12 connector.


```
TP35N5. [ ] /C [ ]
```
3 = cable 3m, **5** = cable 5m

DATA LOGGER ORDERING CODES

```
HD35ED [ ] W1N/2TC. [ ]
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LCD:
Blank = without LCD
L = with custom LCD

RADIO FREQUENCY:
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)