

Humidity, Temperature & Dew Point Transmitter with Replaceable "Humi-chip" Module H3 line and H5 line

The H3 and H5 transmitters determine measurements by means of a highly accurate condensation resistant capacitive sensor integrated in a silicon microchip.

This technology provides accurate process measurements, reliability and excellent long-term stability. **Accurate Dew Point**

calculation is obtained by the integrated humidity and temperature sensors.

The "Humi-chip" module

that incorporates the sensor can be easily replaced without the need for re-calibration;

"Humi-chip" environmental limits:

-30...+90°C;

Stability:

Long-term drift < 0.5 RH% per year;

Two isolated analogue outputs:

selectable for Relative Humidity (RH), Temperature (T). Dew Point (DP), Temperature and Dew Point Temperature difference (ΔT);

Alarm:

Relay outptut programmable for UR, T, DP, ΔT ;

Real Time Clock (RTC):

to trace events and correctly store data:

Serial communications:

RS485 Modbus RTU for digital retransmission and PC

Enclosure rating:

configuration; IP66.







Not only Humidity

Hardware and functions

H3 and H5 transmitters can be either wall or duct mounted or remote sensor mounted. The painted aluminum housing with connectors or terminal connections is IP66 rated for industrial applications and field installation.

The standard H3 model measures humidity and temperature on a digital display. Two analogue outputs and serial communications are optional.

The standard H5 model calculates the dew point and the difference between the temperature and the Dew Point temperature (ΔT). Options include alarms, event tracing and data logging.

Busses, Interfaces and Gateways

H3 and H5 transmitters have standard Modbus Protocol RS485 Serial Communications.

The serial port enables the operator to connect supervisory software, via PC, to accurately monitor the measurements, alarm status and stored data.

For fieldbus connection, Ascon offers two Gateway Manager modules:

- DX to connect Profibus or DeviceNet
- DY to connect CANopen and Ethernet with ModbusTCP protocol and possible integrated Webserver.

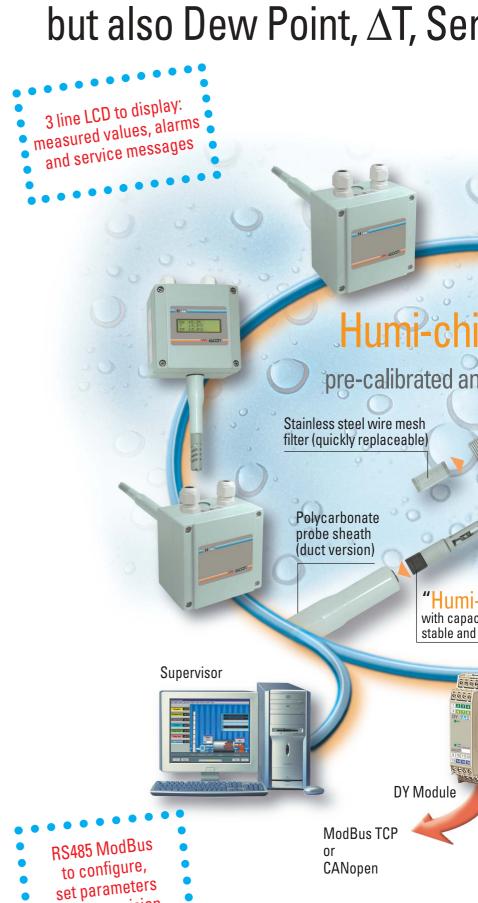
Fully software configurable.

Artificial snow making



Air conditioning and ventilation in pharmaceutical industries

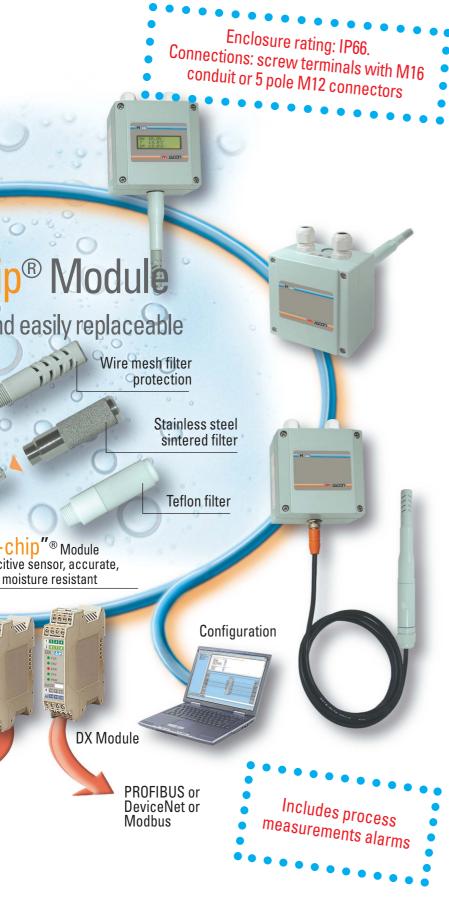




and supervision

and Temperature,

rial Communications and...



Event storing and Data logging

The H5 model stores event details and Data Logging.

Alarm event details including measured values, date, time and duration are stored using the internal Real Time Clock (RTC).

Measured Data Logging values are stored on an operator determined cycle.

The FIFO memory writes data to an EEPROM that cannot be modified by the operator.

The Alarms

The H5 model allows the operator to configure up to 5 alarms which can be combined with any of the system measurements: Humidity, Temperature, DP, ΔT and Humi-chip break.

Each alarm can be configured as minimum or maximum, absolute, deviation or band threshold, istantaneous or delayed, inhibit at activation (Blocking) or acknowledge (Latching).

Alarms can be addressed to a relay output.

Alianina

Transmitters are factory calibrated and no further calibrations are required even after replacing the **Humi-chip** sensor. Humidity and/or Temperature measurements can be aligned by using measurements taken from a reference transmitter. The alignment is made on 1 or 2 points and minimizes measurement errors in real working conditions. The easy sensor calibration requires no accessories.

Storerooms to ripen and preserve fruit and vegetables ...



Storerooms for seasoning meat and cheese ...

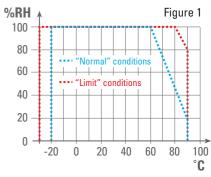


Characteristics at 25°C ambient temperature

Note: Data highlighted in blue apply only to the H5 line.

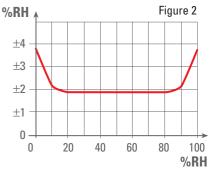
Relative Humidity (RH) Resolution 12 bit 12
Sampling time 1/s
Humidity (RH) Temperature limits Accuracy (figure 2) Typical long-term drift Available Temperature (T) Available Temperature (T) Resolution Accuracy (figure 3) Accuracy (figure 4) AT between Tand DP AT between Tand DP Analogue outputs 1 and 2 Isolation Retransmitted measurement Isolation Retransmited measurement Type John Againa (Sadayani Solation of each output: 500 Vdc/I min Retransmitted measurement Type John Againa (Sadayani Solation of each output: 500 Vdc/I min Retransmited measurement Type John Againa (Sadayani Solation of each output: 500 Vdc/I min Retransmited measurement Type John Againa (Sadayani Solation of each output: 500 Vdc/I min Retransmited measurement Type John Againa (Sadayani Solation of each output: 500 Vdc/I min Retransmited measurement Type John Againa (Sadayani Solation of each output: 500 Vdc/I min Retransmited measurement Type John Againa (Sadayani Solation of each output: 500 Vdc/I min Retransmited measurement Type John Againa (Sadayani Solation of each output: 500 Vdc/I min Retransmited measurement Type John Againa (Sadayani Solation of each output: 500 Vdc/I min Retransmited measurement Type John Againa (Sadayani Solation of each output: 500 Vdc/I min Retransmited measurement Type John Againa (Sadayani Solation) Retransmited measurement Type John Againa (Sadayani Solation) Againa (Sadayani
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records at a rate different from the data logging rate The measured values are cyclically recorded
The measured values are cyclically recorded.
Recording timing: 1 59 min
Power supply 18 27Vac or Power consumption 2W max.
20 30Vdc
Housing material Polycarbonate (RAL 7038)
Protection: IPbb
Probe material Polycarbonate
Safety Compliance to EN 61010-1, double isolation, pollution class 2,
installation class II
General Electromagnetic Compliance to CE standards EN 50081-2, EN 50082-2
characteristics compatibility
Housing environmental -25 +70°C (-13 +158°F) without display
temperature -20 +60°C (-4 +140°F) with display
Electrical connections Standard: spring terminal strip, AWG28-16 wire or 5 pole M12 threaded connector, AWG20 wire
Overall dimensions See page 5
Overall difficultions

Working limits of "Humi-chip" module

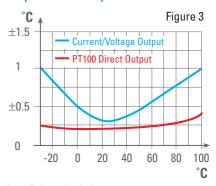


The measured reading accuracy is guaranteed through the "Normal" working conditions. A long-time period, at "Limit" conditions may generate a permanent drift up to +2 RH %.

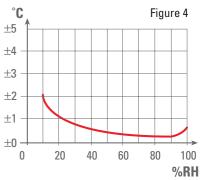
Humidity accuracy



Temperature accuracy



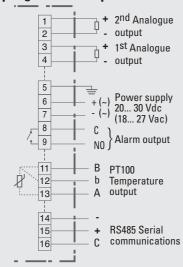
Dew Point calculation accuracy



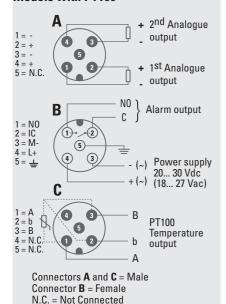
Available functions	Н3	H5
Humidity + Temperature	S	S
Dew Point and ΔT calculations		S
Analogue output 1	0	0
Analogue output 2	0	0
LCD display	0	0
Serial port (RS485 Modbus)	0	
Serial port (RS485 Modbus)		0
+ Alarms + Events + Data logging		U
S = Standard; O = option		

Electrical wiring

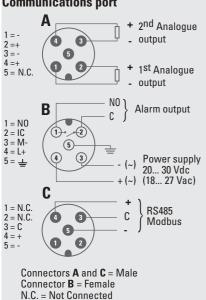
Version with internal removable spring terminal strip



Version with 5 pole M12 connector **Models with PT100**

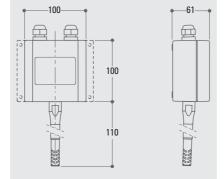


Models with RS485 Serial **Communications port**

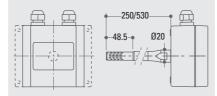


Dimensions

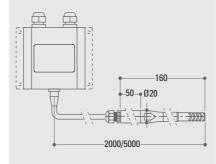
Mounting Wall mounting



Duct mounting



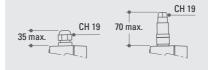
Remote sensor mounting



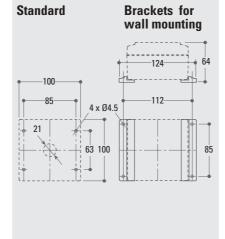
Output

Conduit M16

M12 Connector



Mounting holes



Accessories and spares

"Humi-Chip ®" module

Easy and fast replacement (no calibration needed)

Ordering code: Model: AH-HUMICHIP



Wire mesh stainless steel filter

with threaded filter protection Porosity: 25 µm Response time: 5 s (0...63%) Suitable for clean environments (no dust and moderate wind conditions)

Ordering code: Model: AH-FRI25



Stainless steel sintered filter

with threaded connection Porosity: 5 µm Response time: 10 s (0...63%) Suitable for dusty environments; not moisture resistant

Ordering code: Model: AH-FSI05

Teflon filter

with threaded connection Porosity: 10 µm Response time: 120 s (0...63%) Suitable for aggressive chemical environments, not suitable with high grade humidity

Ordering code: Model: AH-FT10



Mounting brackets

for wall mounting Material: epoxy painted aluminum (RAL 7038) Distance between centers: 112 x 85

Ordering code: Model: AH-SFE2



Wall mounting bracket for remote sensor

Material: SS DIN 1.4401 2 x Ø4 screws holes

Ordering code: Model: AH-SMP01



Adjustable flange Ø100 self-locking

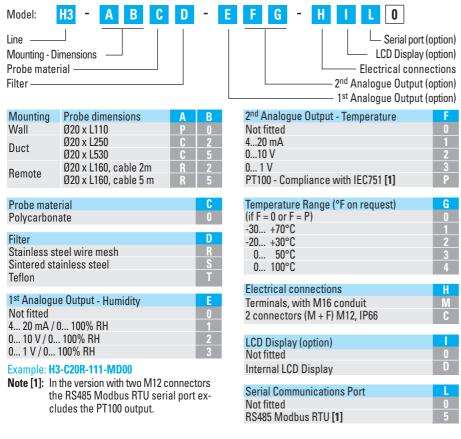
for Ø20 probe Material: anodized aluminum No. 4 holes Ø11, distance between centers Ø75 2000

Ordering code: Model: AH-FLA20





Ordering codes



Model:	H5	-	A	В	C	D	-	Ε	F	G	-	Н	1	L	0)	
Line — Mounting Probe market Filter —													2 nd Ar	Electralog	CD I trica ue (Display al conno Output	(option) (option) ections (option) (option)

Mounting	Probe dimensions	Α	В
Wall	Ø20 x L110	P	0
Duct	Ø20 x L250	2	
Duct	Ø20 x L530	C	5
Remote	Ø20 x L160, cable 2m	R	2
Helliote	Ø20 x L160, cable 5 m	R	5
Probe mate	rial		C
Polycarbon	ate		
Files			n
Filter			D
Stainless st	teel wire mesh		R
Sintered sta	ainless steel		S
Teflon			T
1 st Analogu	e Output - Humidity [1] - [2	2]	Е
Not fitted	, , , , , , , ,	-	0

1st Analogue Output - Humidity [1] - [2]	E
Not fitted	0
4 20 mA / 0 100% RH	1
0 10 V / 0 100% RH	2
0 1 V / 0 100% RH	3

Example: **H5-R50R-141-MD50**

Notes:

- [1] On request, the 1st analogue output can be used for **T**, **DP** o Δ **T**.
- [2] Other output ranges available (selectable using the serial communications).
- [3] Temperature ranges suggested: **DP:** -30...+70°C or 0...100°C Δ**T:** 0...50°C.
- [4] In the version with two M12 connectors the RS485 Modbus RTU serial port excludes the PT100 output.

	Ist Analogue Output (opuon)
2nd Analogue	Output - Temperature [2]	F
Not fitted		0
	4 20 mA	1
Temperature	0 10 V	2
T	0 1 V	3
	PT100 - IEC751 compliant [4]	P
Dew Point	4 20 mA	4
DP POINT	0 10 V	5
DI	0 1 V	6
ΔΤ	4 20 mA	7
T - DP	0 10 V	8
	0 1 V	9

Temperature Range [3] (°F on request)	G
(if F = 0 or F = P)	0
-30 +70°C	1
-20 +30°C	2
0 50°C	3
0 100°C	4

Electrical connections	Н
Terminals, with M16 conduit	М
2 connectors (M + F) M12, IP66	C

LCD Display (option)	
Not fitted	0
Internal LCD Display	D

Serial Communications + Special Functions	L
Not fitted .	0
RS485 Modbus + Alarms + Events + Data logging [4]	

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