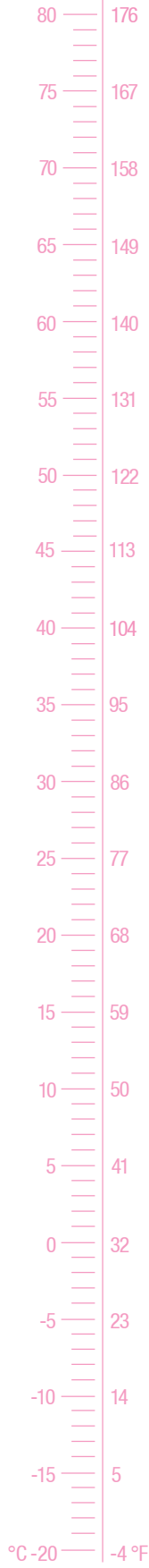


HygroDat 10/20

For precise humidity- and temperature measurement
messung in process and HVAC environment.



General Informations

The new standard of precision

With the precision humidity-transmitter Hygrodat 10&20 (without & with display), Novasina has established a new standard in humidity and temperature measurement technology with regard to accuracy and reliability. This technologically superior product fulfills the highest requirements, which is essential for the control of production processes.

Calibrate quickly and easily

The Novasina Hygrodat gives consistently reliable and accurate data. A calibration check is possible to verify the accuracy. The Transmitter features a user-friendly calibration function, with the press of a button the electronically-controlled adjustment is performed. Up to 5 points can be calibrated and LEDs lead the user through the process.

Four significant advantages

- A new sensor together with a special microchip guarantees precise measurement data throughout the entire temperature and humidity ranges.
- A micro-controller ensures easy operation by means of LED indicators. Additionally the micro-controller monitors the instrument constantly during operation.
- The sensor and control box can be mounted independently of each other and can be connected without amplifier over long distances (up to 60 m).
- The new technology means that signals are unaffected by power fluctuations and electromagnetic interference.

Main advantage

- Pest "online" accuracy of humidity measurement without any hysteresis.
- Easy installation, startup and operation. Service tools and simple intuitive menu operation is standard for this device.
- Remote measurement with a distance up to 60m between transmitter and sensor possible.
- Standard analoge outputs for humidity and temperature in voltage and current signal.
- Changable standard units US / International.
- Menue driven easy one button 5 point calibration 11...98%
- A lot of accessoires and Filters for cellprotection under strong industrial processfield.
- 3 differenent transmitter types available for different applications.

Applications

- Industrial HVAC plants
- Cleanroom application and Healthcare rooms (Hospital)
- Paper-, Textil- Industries
- Meteostations for industrial application
- Archives, librariys, museums
- Storage rooms (Fruits, vegetables)
- Gewächshäuser, Agro Kultur
- Any burning process monitoring (Gas Turbines control)
- Laboratories, Test- measurement rooms
- Chemical-, pharmazeutical-processcontrol
- Packaging processes

Transmitter :

HygroDat 1o R	24V DC / 230V AC
HygroDat 1o S	24V DC / 230V AC
HygroDat 1o M	24V DC / 230V AC
HygroDat 2o R	24V DC / 230V AC
HygroDat 2o S	24V DC / 230V AC
HygroDat 2o M	24V DC / 230V AC

Article No. :

1115311 / 1115314
1115310 / 1115313
1115312 / 1115315
1115317 / 1115320
1115316 / 1115319
1115318 / 1115321

Sensor armatur:

Sensor-Armatur 50 mm	: 1m / 3m : HS-11/13
Sensor-Armatur 100 mm	: 1m / 3m : HS-11/13
Sensor-Armatur 200 mm	: 1m / 3m : HS-21/23
Sensor-Armatur 200 mm	: 1m / 3m : HSS-21/23
in stainless steel body	
Novasina humidity measurement cell	CC-1

Article No. :

1114878 / 1114879
1113739 / 1113740
1113741 / 1113742
111xxxx / 111xxxx
under construction
1113828



M - Type



S - Type



R - Type

Specifications

Type	HygroDat 10/20 24VDC	HygroDat 10/20 90....230V
Article-Nr.	see front page	see front page
Measuring range : Humidity	6%...100% RH (electronic protection against saturation)	
Measuring range : Temperature	-20 ... +80°C / -4.....176°F	
Accuracy of : Temperature	+/- 0.5K	
Accuracy of : Humidity	+/- 1.0 % RH (at 25°C and 5 Point calibration)	
Basic repeatability (RH / T)	0.1% RH / 0.1K	
Typical repeatability (RH / T)	0.3% RH / 0.1K	
Operation temperature : Transmitter	-10 ... 50° C / 14140°F	
Operation temperature : Sensor armatur	-20 ... 80° C / -4 176°F	
Powersupply voltage	9 ... 35V DC	90 ... 260 V AC (50 / 60Hz)
Power consumption	2.0 W DC max.	3.5 VA AC max.
Electromagnetic compatibility	EN 50081-2 / EN61000-3-2/-3 / EN 50082-1/-2	
IP-protection / shock / Regulations / Vibration	IP 65 / IEC 68-2-6 / EN 61010-CE / IEC 68-2-6	
Analoge output signal : voltage	0 ... 10 VDC / 2 10 VDC (at >= 8kΩ load)	
: current	0 ... 20 mA / 4 20 mA (at <= 500Ω load)	
Storage temperature : Transmitter	-10 ... 60° C / 32122°F (no saturations)	
Storage temperature : Sensor	-20 ... 60° C / -4122°F (no saturations)	

Accessoires :

		Article-No.
Metal web filter with celgard	MF-1	1111018
Metal web filter mit activeted carbon	AF-1	1113675
Protection cap without filter	CP-1	1114745
Duct mounting flange	1 pc.	1115343
Wall mounting flange	2 pc.	1117360
Mounting set DIN rails	Set	1107350
Adapter for sensor check SAL-T		1107345
Sensor armatur inkl, CC-1 Zelle	HS-xx	div.
Armatuer extension tube polycarbonate		1114632
Sensor checks SAL - T 11 / 33 / 53 / 75 / 90 / 98%RH		div.

