HVAC & BYGNINGSAUTOMATIK





Outside temperature/wet room temperature measuring transducers, calibratable, with multi-range switching and active output



It is used to detect outside temperatures, temperatures in wet rooms, e.g. for installation on outside walls, in cold storage buildings and greenhouses, in the industrial sector and in agriculture. Installation in outdoor areas preferably at the north side of a building or in a protected place. In case of direct solar irradiation, we recommend the use of our sun and ball-impact protection hood **WSO1** or **WSO4** (accessories) or the device version with the installed sun protection hood **SSO2** (on request).

The sensor is factory-calibrated; an environmental precision adjustment by an expert is possible.

TECHNICAL DATA	
Power supply:	24 V AC / DC (±10%) for U variant 1536 V DC for I variant, depending on working resistance, residual ripple stabilised ±0.3 V
Working resistance:	R_a (ohm) = (U _b -14V) / 0.02 A for I variant, see load resistance diagram
Load resistance:	$R_L > 5 kOhm$ for U variant
Power consumption:	< 1.0 VA / 24 V DC; < 2.2 VA / 24 V AC
Sensor:	Pt1000, DIN EN 60751, class B, (Perfect Sensor Protection) Sensor external
Measuring ranges:	multi-range switching with 8 switchable measuring ranges see table (other measuring ranges optional) operating range -30+70°C with manual zero point correction (± 10K)
Deviation in temperature:	typically \pm 0.2K at +25 °C
Output:	0-10V or 420mA
Connection type:	2- or 3-wire connection
Electrical connection:	0.14 - 1.5 mm², via screw terminals
Cable connection:	cable gland, stainless steel V2A (1.4305) (M20x1.5; with strain relief, exchangeable, inner diameter 6 - 12 mm) or M12 connector (male, 5-pin, A-code) according to DIN EN 61076-2-101
Housing:	plastic, UV-resistant, material polyamide, 30% glass-globe reinforced, with quick-release screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), cover for display is transparent!
Housing dimensions:	72x64x37.8mm (Tyr1 without display) 72x64x43.3mm (Tyr1 with display)
Protective tube:	made from stainless steel V4A (1.4571), Ø 6 mm, NL = 65 mm
Process connection:	by means of screws (on the housing base)
Ambient temperature:	measuring transducer -30+70 °C
Permissible humidity:	<95% r.H., non-precipitating air
Protection class:	III (according to EN 60730)
Protection type:	IP 65 (according to EN 60529) Housing tested, TÜV SÜD, Report No.713139052 (Tyr 1)
Standards:	CE conformity, electromagnetic compatibility according to EN 61326, according to EMC Directive 2014/30/EL
Optional:	display with illumination, two-line, cut-out approx. 36x15 mm (BxH) to display the actual temperature and internal diagnostics (measuring range exceeded, measuring range not reached, sensor breakage, sensor short circuit)
ACCESSORIES	(see table)



ATM 2 with cable gland and SS-02



ATM 2 - Q with M12 connector



THERMASGARD® ATM 2

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Outside temperature/wet room temperature measuring transducers, calibratable, with multi-range switching and active output





THERMASGARD® ATM 2

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Outside temperature/wet room temperature measuring transducers, calibratable, with multi-range switching and active output



THERMASGARD® ATM 2	Outside temperature / wet room temperature measuring transducers (with cable gland)				
Type/WG01	Sensor	Output	Display	ltem No.	Price
ATM 2					
ATM2-I	Pt1000	420 mA		1101-1142-0009-900	95,74 €
ATM2-I LCD	Pt1000	420 mA		1101-1142-2009-900	144,23 €
ATM2-U	Pt1000	0 -10 V		1101-1141-0009-900	95,74 €
ATM2-U LCD	Pt1000	0 -10 V		1101-1141-2009-900	144,23 €
Housing variant:	Cable connecti	Cable connection with cable gland			
Extra charge:		other measuring ranges optional with sun protection hood SSO2 on request			24,19 € 9,28 €

THERMASGARD [®] ATM 2-Q	Outside temperature / wet room temperature measuring transducers (with M12 connector)				
Type/WG01	Sensor	Output	Display = Q	ltem No.	Price
ATM 2-Q					
ATM2-I Q	Pt1000	420mA	•	2001-6111-2100-001	135,66 €
ATM2-I Q LCD	Pt1000	420 mA	• •	2001-6112-2100-001	184,16 €
ATM2-U Q	Pt1000	0 -10 V	•	2001-6111-1100-001	135,66 €
ATM2-U Q LCD	Pt1000	0 -10 V	• •	2001-6112-1100-001	184,16 €
Housing variant "Q":	Cable connection with M12 connector (male, 5-pin, A-code)				
Extra charge:	see table above!				

ACCESSO	ACCESSORIES					
WS-01	protection contre le soleil et pare-balle, 184 x 180 x 80 mm, en acier inox V2A (1.4301)	7100-0040-2000-000	30,26 €			
WS-04	protection contre le soleil et les intempéries, 130 x 180 x 135 mm, en acier inox V2A (1.4301)	7100-0040-7000-000	35,70 €			
	Special accessories for M12 connector see chapter Accessories!					

Outside temperature/wet room temperature measuring transducers, calibratable, with multi-range switching and active output



Calibratable outside temperature measuring transducer **THERM**ASGARD® **ATM 2 - VA** with eight switchable measuring ranges, external sensor, continuous output, rugged housing made from **stainless steel V4A**, with **cable gland** or **M12 connector** according to DIN EN 61076-2-101.

It is used to detect outside temperatures, temperatures in wet rooms, e.g. for installation on outside walls, in cold storage buildings and greenhouses, in the industrial sector and in agriculture. Installation in outdoor areas preferably at the north side of a building or in a protected place. In case of direct solar irradiation, we recommend using our sun and ball-impact protection hood **WS01** or **WS03** (accessories).

The sensor is factory-calibrated; an environmental precision adjustment by an expert is possible.

TECHNICAL DATA

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Power supply:	24 V AC / DC (± 10 %) for U variant 1536 V DC for I variant, depending on working resistance, residual ripple stabilised ± 0.3 V
Working resistance:	R_{a} (ohm) = (U_{b}-14V) $/$ 0.02 A $$ for I variant, see load resistance diagram
Load resistance:	$R_L > 5 kOhm$ for U variant
Power consumption:	< 1.0 VA $/$ 24 V DC; $~<$ 2.2 VA $/$ 24 V AC
Sensor:	Pt1000, DIN EN 60751, class B, (Perfect Sensor Protection) Sensor external
Measuring ranges:	multi-range switching with 8 switchable measuring ranges see table (other measuring ranges optional) operating range –30+70 °C with manual zero point correction (± 10 K)
Deviation in temperature:	typically \pm 0.2K at +25 °C
Output:	0-10V or 420mA
Connection type:	2-wire connection
Electrical connection:	0.14 - 1.5 mm², via screw terminals
Cable connection:	cable gland, stainless steel V2A (1.4305) (M20x1.5; with strain relief, exchangeable, inner diameter 6-12mm) or M12 connector (male, 5-pin, A-code) according to DIN EN 61076-2-101
Housing:	stainless steel V4A (1.4571), with non-distortion cover bolting, impact resistant, high EMI shielding, corrosion, temperature, weather- and UV-resistant
Housing dimensions:	143 x 97 x 61 mm (Tyr 2E)
Protective tube:	made from stainless steel V4A (1.4571), Ø 6 mm, NL = 65 mm
Process connection:	by screws
Ambient temperature:	
	measuring transducer –30…+70 °C
Permissible humidity:	< 95 % r.H., non-precipitating air
Permissible humidity: Protection class:	•
	<95% r.H., non-precipitating air
Protection class:	< 95 % r.H., non-precipitating air III (according to EN 60730) IP 65 (according to EN 60529) Housing tested,

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THERMASGARD® ATM 2 - VA

Outside temperature/wet room temperature measuring transducers, calibratable, with multi-range switching and active output

> ATM 2 - VA with cable gland

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ATM 2 - VAQ with M12 connector





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ATM 2 - VA

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Housing with **M12 connector**

M20x1.5



M12 connector (male) High-performance encapsulation against vibration, mechanical stress and humidity





Dimensional drawing

143

THERMASGARD® ATM 2 - VA

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THERMASGARD® ATM 2 - VA



ATM 2 - VAQ with M12 connector



Outside temperature / wet room temperature measuring transducers,	
calibratable, with multi-range switching and	
active output	

ATM 2 - VA with cable gland

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Outside temperature / wet room temperature measuring transducers, <i>ID</i> (Stainless steel housing with cable gland)					
Sensor	Output	ltem No.	Price		
Pt1000	420 mA	2001-6171-2200-001	359,38 €		
Pt1000	0 -10 V	2001-6171-1200-001	359,38 €		
Cable connecti	Cable connection with cable gland				
other measuring ranges optional			24,19 €		
	(Stainless st Sensor Pt1000 Pt1000 Cable connecti	Stainless steel housing with cable Sensor Output Pt1000 420 mA Pt1000 0-10 V Cable connection with cable gland	Item No. Sensor Output Item No. Pt1000 420mA 2001-6171-2200-001 Pt1000 0-10V 2001-6171-1200-001 Cable connection with cable gland V		

THERMASGARD[®] Outs ATM 2 - VAQ (Sta

Outside temperature / wet room temperature measuring transducers, ID (Stainless steel housing with M12 connector)

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Type / WGO2I	Sensor	Output	• = Q	ltem No.	Price
ATM 2 - VAQ					
ATM2-I VA Q	Pt1000	420 mA	•	2001-6171-2100-001	396,08 €
ATM2-U VA Q	Pt1000	0-10 V	•	2001-6171-1100-001	396,08 €
Housing variant "Q":	Cable connection wi t	Cable connection with M12 connector (male, 5-pin, A-code)			
Extra charge:	see table above!				

ACCESSORIES

Special accessories for M12 connector see chapter Accessories!



VORES PRODUKTSORTIMENT INKLUDERER:



VI FØRER PRODUKTER INDENFOR KATEGORIERNE:





Ove Jensens Alle 35 F DK-8700 Horsens Denmark www.newtronic.eu www.newtronic.dk +45 7669 7090

