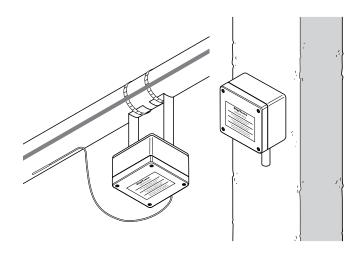


APPLICATION

DIGITRACE RAYSTAT-EX-03 AND RAYSTAT-EX-04 SURFACE AND AMBIENT SENSING, ELECTRONIC 🖘



These electronic surface sensing and ambient thermostats provide accurate temperature control for heating cables.

The units can be supplied at nominal voltages of either 110 V 50/60 Hz or 230 V 50/60 Hz and have a double pole switch rated at 16 A. The switch contacts can be arranged to be volt free. Temperature setting is accurate via digital thumb wheel switches inside the enclosure.

The surface sensing version is supplied with a Pt 100 sensor and a 2 m long stainless steel sheathed extension cable giving freedom to locate the electronics remote from the sensor. The ambient version is supplied with a local Pt 100 sensor and a wind shield.

The enclosure is manufactured from high impact resistant glass filled polyester offering IP66 protection. For pipe temperatures up to 215°C, the units can be mounted on the pipe using a support bracket.

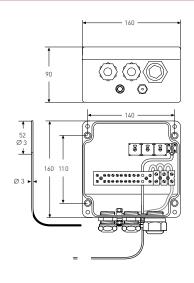
PAYSTAT-FY-NA

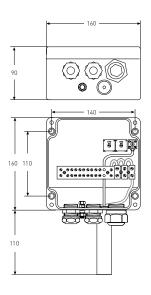
APPLICATION	RAYSTAT-EX-U3	RAYSTAT-EX-U4
	Surface sensing	Ambient sensing
THERMOSTAT		
Area of use	Hazardous area: Zone 1 or Zone 2 (Gas) or Zone 21 or Zone 22 (Dust) Ordinary	
APPROVALS CERTIFICATION		
	Baseefa11ATEX0071X IECEx BAS 11.0036X \textcircled{B} II 2 GD When the unit is powered with a supply voltage \geq 99 and \leq 230 Va.c. Ex e mb ia IIC T6 Ta -50°C to +60°C Gb Ex tb IIIC T85°C Ta -55°C to +60°C Db IP66 When the unit is powered with a supply voltage > 230 \leq 253 Va.c.	
	Ex e mb ia IIC T5 Ta -50°C to +60°C Gb Ex tb IIIC T100°C Ta -55°C to +60°C Db	
PRODUCT SPECIFICATION		
Temperature range	0°C to 499°C	0°C to 49°C
Ingress protection	IP66	IP66
Deluge testing	Passed Shell UK requirements	Passed Shell UK requirements
Switching accuracy	±1 K at 5°C ±1% of setpoint above 100°C	±1 K at 5°C
Switching differential (Hysteresis)	≈ 1°C at 100°C ≈ 2°C at 200°C ≈ 5°C at 499°C	≈ 1°C
Output relay	Dual pole change overtype (DPDT) (optional volt free)	Dual pole change over type (DPDT) (optional volt free)

PAVSTAT_FY_03

PRODUCT SPECIFICATION (continued)

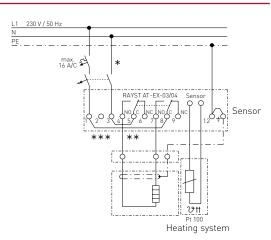
DIMENSIONS (IN MM)	RAYSTAT-EX-03	RAYSTAT-EX-04
Internal power consumption Terminal size	110 Vac ~ 4 VA, 230/253 Vac ~ 3 VA max. 4 mm²	max. 4 mm²
Ambient temperature range Supply voltage	+55 to +60 110 Vac ±10% 50/60 Hz 230/253 Vac ±10% 50/60 Hz	+55 to +60 110 Vac ±10% 50/60 Hz 230/253 Vac ±10% 50/60 Hz
Switching capacity	16 A 110 Vac ±10% 50/60 Hz 16 A 230/253 Vac ±10% 50/60 Hz resistive load	16 A 110 Vac ±10% 50/60 Hz 16 A 230/253 Vac ±10% 50/60 Hz resistive load





TYPICAL WIRING DIAGRAM FOR DIRECT SWITCHING

- Circuit breaker configurations may vary according to local standards/requirements
- ** Link 1-8 and/or 3-5 can be removed to provide potential-free contacts
- *** Terminal 2: 110 Vac input terminal



Cable entries	2 x M20 glands (cable Ø 7.5 – 13 mm) 1 x M25 with M25(M)/M20(F) adaptor and (M20) plug	2 x M20 glands (cable Ø 7.5 – 13 mm) 1 x M25 with M25(M)/M20(F) adaptor and (M20) plug
Sensor	2 wire Pt 100, stainless steel sensor, 2 m long	2 wire Pt 100, stainless steel sensor, complete with wind shield

MOUNTING METHOD

Raychem support bracket SB-100 or SB-101,	Raychem support bracket SB-100 or
SB125 or surface mounting with 4 fixing holes	SB-101, SB125 or surface mounting
on 110x140 mm centres	with 4 fixing holes on 110x140 mm
	centres

ORDERING DETAILS

Part Description	RAYSTAT-EX-03	RAYSTAT-EX-04
PN (Weight)	333472-000 (3.0 kg)	462834-000 (3.1 kg)



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