



ENGLISH

Datasheet

Stock No: 1241050

RS Pro 35 x 77mm Defrost Thermostat, NTC, Three Outputs



At a glance

- 35x77mm size
- On-Off control
- Three relay outputs for cooling, defrost and fan control
- Range -60 to 150°C
- Two NTC probe inputs for cooling and defrost control
- Compressor protection parameter

Overview

Compact 35 x 77mm defrost thermostat for refrigeration applications. 2 x NTC sensor inputs and three outputs for compressor, defrost control. Suitable for both electric and hot-gas defrost methods.

Key Features

- Probe failure setting, output status can be set to ON, OFF or pulse
- Adjustable upper and lower setpoint value limits
- Sensor input offset setting
- Selectable smart defrost feature
- Defrost initiated by evaporator temperature, time dependent or manual operation
- Adjustable defrost duration and intervals
- High and low alarm limits, absolute or deviation
- Temperature units °C or °F
- Digital input ;
 - External alarm
 - Initiate defrost or lighting
- CE marked



ENGLISH

Specifications

Environmental Conditions

Ambient / Storage Temperature	0 ... +50°C/-25 ... 70°C (without icing)
Relative Humidity	Relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.
Protection Class	According to EN60529; Front panel : IP65 Rear Panel : IP20
Height	Max. 2000m

Electrical Characteristics

Supply Voltage	230V AC +%10 -%20, 50/60Hz or 24V AC/DC ±%10
Power Consumption	Max. 5VA
Connection	2.5mm ² screw-terminal connections
Scale	-60.0 ... +150.0°C (-76.0 ... +302.0°F)
Sensitivity	0.1°C (Can be selected as 0.1°C or 1°C.)
Accuracy	±1°C
Time Accuracy	±1%
Display	4 digits, 12.5mm, 7 segment LED
EMC	EN 61326-1: 2013
Safety Requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)

Outputs

Compressor Relay Output	Relay : NO 250V AC, 8A (for resistive load), 1/2hp, 0.37kW 240V AC (for inductive load)
Defrosting Relay Output	Relay : NO+NC 250V AC, 8A (for resistive load), 1/2hp, 0.37kW 240V AC (for inductive load)
Fan Relay Output	Relay : NO 250V AC, 8A (for resistive load), 1/2hp, 0.37kW 240V AC (for inductive load)
Life Expectancy	Without load 30.000.000 switching; 250V AC, 8A (resistive load) 100.000 switching.

Control

Control Type	Single set-point control
Control Algorithm	On-Off control
Hysteresis	Adjustable between 1 ... 20.0°C

Housing

Housing Type	Suitable for flush -panel mounting
Dimensions	H35xW77xD61mm
Weight	Approx. 190g (After packing)
Enclosure Material	Self extinguishing plastics.



ENGLISH

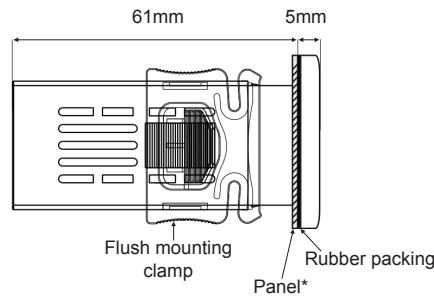
Dimensions

Front Fascia 35 x 77mm.

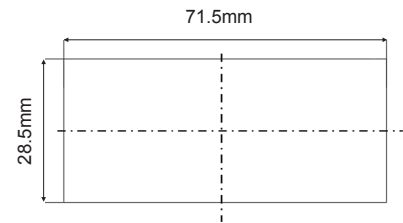
Front



Depth



Panel cut-out



*Panel thickness should be maximum 7mm.

Ordering

Stock Number	Supply Voltage	Number Outputs
1241049	230V ac	3
1241050	24V ac/dc	3

Accessories

Stock Number	Description	Range
1241079	Air probe, plastic shell (PVC cable)	-50...+105°C
1241080	Air probe, thermoplastic shell (with thermoplastic cable)	-30...+80°C
1241081	Air probe, stainless-steel shell (silicon cable)	-60...+150°C
1241082	Liquid probe, stainless-steel shell (silicon cable)	-60...+150°C