



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



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## Specifications

### Environmental Conditions

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

### Electrical Characteristics

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

### Outputs

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

### Control

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

### Housing

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



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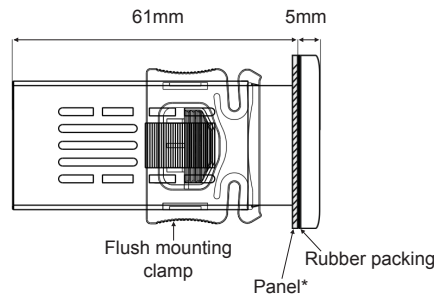
## Dimensions

Front Fascia 35 x 77mm.

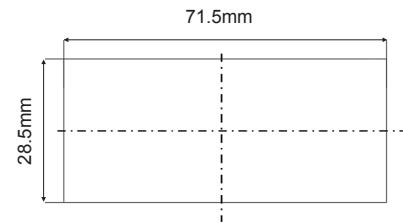
Front



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