



REFRIGERATION COMPONENTS

Field Controllers

Multi-Stages Control Devices

MS Line

General purpose and Multi Stages

This range of versatile controls is intended for single or multistage (2 or 4 stages) applications such as heating, cooling but also humidity or pressure depending on the input type.

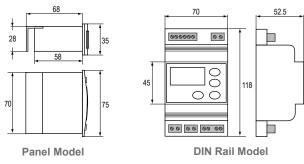
This range incorporates all control functions as required by modern applications and it exists in both panel mount and DIN rail enclosures. Particular attention has been given to its style in order to better suit your machine design.

This complete range of microprocessor based controls offers innovative features and "state of the art" technology.

Features

- Attractive Panel mount and DIN rail mount enclosure
- Up to 4 relays in panel mount enclosure
- 230 Volt power supply models available
- Accept temperature (A99) and 0-10 Volts sensor signal depending on models
- Power supply to sensors on 0-10 Volts models available from controller
- Accurate and interchangeable IP68 sensor
- Wide range of enclosures for sensors available
- Keyboard lock
- SMD technology





Dimensions in mm

MS Display

Ordering Codes	Range	Power Supply	Enclosure	Input	Protection Class	Additional Features
DIS12T-1C	-40 to +70 °C	12 VAC/DC		A99 sensor (incl.)	Overall IP20 Front IP54	Accuracy: ±1 Unit Power Consumption: 1.5 VA 50/60 Hz
DIS230T-1C		230 VAC				
DIS12V-1C	0 to +100% (Rh)	12 VAC	Panel	0-10 V from humidity sensor (not Incl.)		
DIS230V-1C		230 VAC				

MS1 One-stage Control

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Ordering Codes	Range	Power Supply	Enclosure	Input	Output Rating 250 VAC	Alarm Output	Protection Class	Additional Features
MS1PM12RT-1C		12 VAC/DC	Panel	A99 sensor (incl.)	SPST 8(3)A	Open Collector 40 VDC/100 mA	Overall IP20 Front IP54	Accuracy: ±1 Unit Power Consumption: 2 VA 50/60 Hz
MS1PM230T-1C	-40 to +70 °C	230 VAC	railei		SPDT 8(3)A			
MS1DR230T-1C		230 VAC	DIN rail		SPST 8(3)A		IP20	
MS1PM12RV-1C		12 VAC	Danal	0-10 V	SPST 8(3)A		Overall IP20 Front IP54	
MS1PM230V-1C	-40 to +100	230 VAC	Panel		SPDT 8(3)A			
MS1DR230V-1C		230 VAC	DIN rail		SPST 8(3)A		IP20	



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MS2 Two-stage Control

Ordering Codes	Range	Power Supply	Enclosure	Input	Output Rating 250 VAC	Protection	Additional Features
					Each Stage (1-2)	Class	
MS2PM12RT-1C	-40 to +70 °C	12 VAC/DC	Panel	A99	SPST 8(3)A	Overall IP20 Front IP54 IP20	Accuracy: ±1 °C Power Consumption:
MS2DR230T-1C		230 VAC		sensor	SPST 8(3)A		
MS2DR48DT-1C		12-24 VAC/DC 48 VDC	DIN rail	(incl.)	SPDT 8(3)A		
MS2PM12RV-1C	-40 to +100	12 VAC	Panel	0-10 V	SPST 8(3)A	Overall IP20 Front IP54	2 VA 50/60 Hz
MS2DR230V-1C		230 VAC	DIN rail		SPST 8(3)A	IP20	

MS4 Four-stage Control

Ordering Codes	Range	Power Supply	Enclosure	Input	Output Rating 250 VAC	Protection	Additional Features
					Each Stage (1 to 4)	Class	
MS4PM12RT-1C	-40 to +70 °C	12 VAC/DC	Panel	A99 sensor (incl.)	SPST 8(3)A	Overall IP20 Front IP54	Accuracy: ±1 Unit - Power Consumption: 2 VA 50/60 Hz
MS4DR230T-1C		230 VAC			SPST 8(3)A		
MS4DR48T-1C		12-24 VAC/DC 48 VDC	DIN rail		SPDT 8(3)A	IP20	