

**electronic controller for static refrigerating units with defrost cycle managed by room probe**



## General Description

The new ID961D controller enhanced the Digifrost Line range with a new device, capable to manage end of defrost by time or by temperature.

Thanks to specific parameters, the ID961D receives from the the more complex devices of the family range all the functionalities to manage end of defrost referring to the temperature value detected inside the room.

Once more, the Digifrost line has a range of models developed specifically so that they can be used in all refrigeration applications: from the simplest, which still need to avail of the benefits offered by electronics in terms of precision, reliability and economy of installation, to the more complex applications, requiring auxiliary functions and advanced management. DIGIFROST Line, a complete and evolved range of multifunction controllers for all sectors of the refrigeration and catering industry.

## Characteristics

The new ID961D controller is a device suitable for applications on normal temperature refrigerating units. It is provided with one input for NTC (PTC can be set by parameter) thermostatic probe and with one 16A 1hp relay output for compressor management.

Defrost cycles are controlled at time intervals by stopping the compressor or when the room probe reaches a specified temperature value, set by parameter.

The controller allows viewing the value that the probe read on the three digit and a minus sign display. All models are provided by TTL connection for using Copy Card, the quick programming accessory. The Buzzer is optional. On demand there are available removable screw terminal blocks to facilitate the installation

## Technical Data

Size: front panel 32x74 mm, standard Eliwell.  
Cutting template: 71x29 mm.

Measuring Range:

- 50..110°C (NTC);
- 50..140°C (PTC).

Probe Input type: NTC and PTC probe.

Digital output type: 8(3) A 250V~, 16 A 1Hp, 30 A 2 Hp relay.

Connections: screw terminal blocks, removable screw terminal blocks.

Accuracy: better of 0,5% than the end of scale  
Resolution: 1 or 0,1 °C.

Power supply: 12V~/= , 115 V~, 230V~ (depending on model)

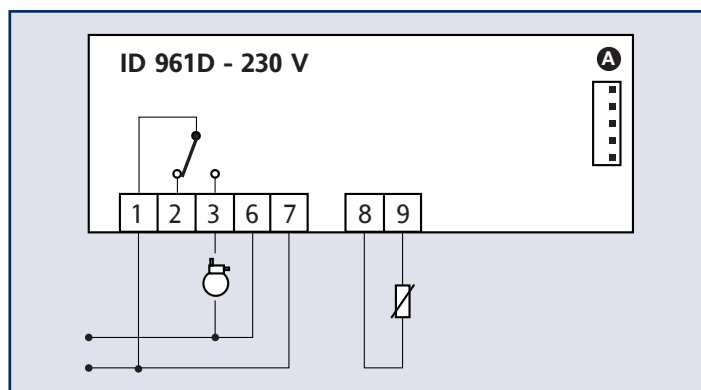
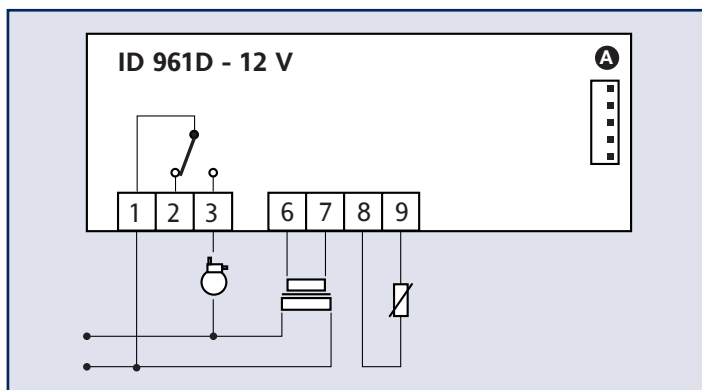
Front panel protection: IP65.

Mounting: on panel.

Approvals: VDE, UL pending.



## Electrical Diagram 12V and 230V



### Electrical Diagram Description

- 1-2 Compressor relay N.C.
- 1-3 Compressor relay N.O.
- 6-7 Power supply
- 8-9 Probe input
- A TTL input for Copy Card



### Table of Parameters

Parameter	Description	Range	Default Settings	U.M.
SEt	SEt point	LSE...HSE	0.0	°C/°F
diF	DiFFerential	0.1...30.0	2.0	°C/°F
HSE	Higher Set	LSE...302	99.0	°C/°F
LSE	Lower Set	-55.0...HSE	-50.0	°C/°F
Ont	On time (compressor)	0...250	0	min
OFt	OFF time (compressor)	0...250	1	min
dOn	Power-On delay	0...250	0	sec
dOF	delay after OFF	0...250	0	min
dbi	delay between ON	0...250	0	min
OdO	delay Output from power on	0...250	0	min
dit	defrost interval time	0...250	6	hours
dCt	defrost Counting type	0/1/2	1	num
dOH	defrost Offset Hour	0...59	0	min
dEt	defrost Endurance time	1...250	30	min
dSt	defrost Stop temperature	-50.0... 150	8.0	°C/°F
dPO	defrost (at) Power On	n/y	n	flag
LOC	(keyboard) LOCK	n/y	n	flag
PA1	PASSword 1	0...250	0	num
ndt	number display type	n/y	y	flag
CA1	CALibration 1	-12.0...12.0	0	°C/°F
ddL	defrost display Lock	0/1/2	1	num
dro	Selection °C or °F	0/1	0/1	flag
H00*	Sel. sensor PTC/NTC	0/1	0	flag
reL	reLease firmware	/	/	/
tAb	tAbLe of parameters	/	/	/
UL	Up load	/	/	/
dL	Down load	/	/	/
Fr	Format	/	/	/

\* depending on model

#### Invensys Controls Italy s.r.l

via dell'Industria, 15  
Zona Industriale Paludi  
32010 Pieve d'Alpago (BL)  
ITALY

Telephone +39 0437 986111  
Facsimile +39 0437 989066  
Internet <http://www.climate-eu.invensys.com>