

DISPLAY CABINET CONTROLLER

LCAL

Type LCAL is a unit suitable for the control of Linde single evaporator ATR refrigerated display cabinets where defrost is initiated by external equipment. The unit controls the cabinet temperature by measuring three air temperatures and operating the evaporator liquid solenoid valve.

The unit can be set for terminating or controlling the defrost. Defrost is detected by a probe mounted on the suction line, or by communications. The defrost is terminated when the temperature of the air leaving the evaporator exceeds an adjustable defrost termination value, or when an adjustable time is reached.

Evaporator fans are run while refrigerating and are stopped during defrost.

The unit detects and indicates high temperatures. The alarm level and its response time are adjustable. High temperature alarms are cancelled during defrost.

Cabinet temperatures together with a simple alarm and defrost mode messages can be indicated locally by using JTL display units.

Type LCAL provides a comprehensive alarm reporting, data-logging and remote access when connected to a JTL Communications Unit.

FEATURES

- ◆ Temperature measurement inputs
- ◆ Temperature display drives
- ◆ Relay outputs
- ◆ Maintenance unit socket
- ◆ Communications sockets
- ◆ Comms initiated defrost option
- ◆ Default data set-up switches
- ◆ Non-volatile set-up memory
- ◆ Watchdog to ensure reliable operation
- ◆ Data-logging memory

HARDWARE

- ◆ Temperature probe inputs 5
- ◆ Probe types supported Tempkey
- ◆ Temperature display drives 2 (using CONVD4 splitter)
- ◆ Voltage-free contact outputs 4
- ◆ Voltage-free contact inputs 0
- ◆ Data logging memory capacity 930 points on 4



TECHNICAL SPECIFICATION

Temperature probe input 1	.....	Air On (well)
Temperature probe input 2	.....	Air Off
Temperature probe input 3	.....	Evaporator
Temperature probe input 4	.....	Suction Line
Temperature probe input 5	.....	Air On (Half glass door)
Output 1	.....	Unused
Output 2	.....	Fan Control
Output 3	.....	Liquid valve control (Normally closed valve)
Output 4 (changeover contact)	.....	Defrost control
Relay output rating	.....	1 A resistive (240 V max)
Unboxed dimensions(L x W x H)	.....	208 x 167 x 43 mm
Unboxed weight	.....	0.52 kg
Power supply (Standard)	.....	240 V 48-62 Hz
(Optional)	.....	110 or 220 V

ORDERING INFORMATION

LCAL Printed Circuit board only

Power Supply Options:

For 110 V append - 110 to order code

For 220 V append - 220 to order code

For suitable enclosures see appropriate datasheet.

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