

Multiplexed Cabinet Refrigeration Controllers

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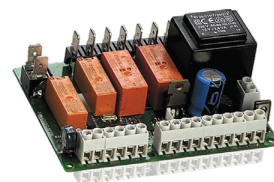
D, K: 8 DIN Rail



100x64mm



32x74mm



K: OS/GS



L: 38x185mm



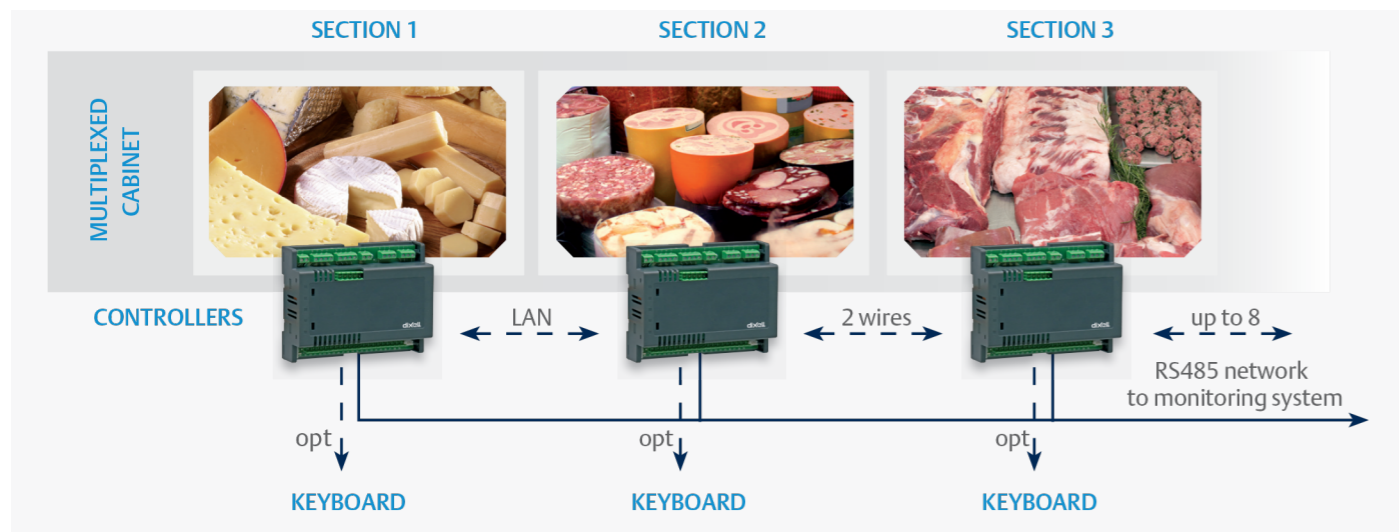
38x185mm



38x185mm

XM200/400/600 Series: NT and LT Applications

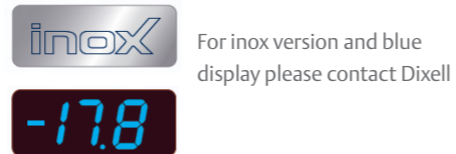
- Multifunction controllers for multiplexed applications
- Multi-master devices (XM400/600)
- Up to 5 controllers linked for XM400 series and up to 8 for XM600 series
- Internal Real Time Clock
- Superheat adaptive control (XM600)
- Integrated ON/OFF or stepper electronic expansion valve drive (XM600)
- Anti-sweat heater management through a “DEW POINT” (XM600)
- Virtual probe management (XM600)
- Evaporating fans speed management via PWM or 4÷20mA/0÷10V (XM600)
- XM668D and XM678D models certified by Alco to be used combined with EX4, EX5, EX6 valves
- Keyboard with direct access to the main functions (also with TOUCH interface)
- Hot Key or Prog Tool Kit connector for quick and easy programming
- Serial connection to monitoring systems
- 10VA max power absorption
- Display with red LED (13,2 mm high), (10,5mm and icons for CX format and WING TOUCH)



How to order

XM200L	X	M	2	4	4	L	-	A	B	C	D	0
--------	---	---	---	---	---	---	---	---	---	---	---	---

A	B	C	D
Power supply	RTC	Buzzer	Measurement unit
4 = 110Vac	0 = No	0 = No	C = °C
5 = 230Vac	1 = Yes	1 = Yes	F = °F



XM400K	X	M	4				K	-	A	B	C	D	E
--------	---	---	---	--	--	--	---	---	---	---	---	---	---

A	B	C	D	E
Power supply	RTC	Housing	Measurement unit	RS485 output
4 = 110Vac	0 = No	0 = Open board "OS"	C = °C	0 = No
5 = 230Vac	1 = Yes	1 = "GS" housing	F = °F	1 = Yes

XM600D	X	M	6		8	D	-	2	B	C	D	E
--------	---	---	---	--	---	---	---	---	---	---	---	---

B	C		D	E	
Inputs	RTC	RS485	Measurement unit	Modulating output	Connections
N = NTC/4÷20mA	0 = No	No	C = °C/Bar	0 = No	Disconnectable + screw
O = NTC/0÷5V	1 = No	Yes	F = °F/PSI	1 = No	Screw
P = Pt1000/4÷20mA	2 = Yes	No		2 = 4÷20mA/0÷10V	Disconnectable + screw
Q = Pt1000/0÷5V	3 = Yes	Yes		3 = 4÷20mA/0÷10V	Screw
				4 = PWM	Disconnectable + screw
				5 = PWM	Screw

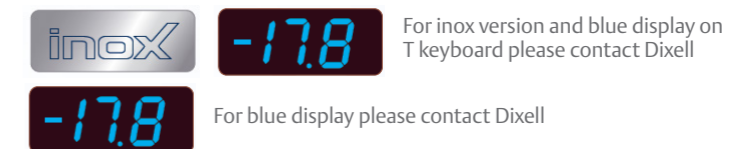
XM600K	X	M	6				K	-	A	B	C	D	E
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A	B	C		D	E		
Power supply	Inputs	RTC	RS485	Housing	Measurement unit	Modulating output	Connections
4 = 110Vac	N = NTC/4÷20mA	0 = No	No	8 DIN Rail	C = °C/Bar	0 = No	Disconnectable + screw
5 = 230Vac	O = NTC/0÷5V	1 = No	Yes	8 DIN Rail	F = °F/PSI	1 = No	Screw
	P = Pt1000/4÷20mA	2 = Yes	No	8 DIN Rail		2 = 4÷20mA/0÷10V	Disconnectable + screw
	Q = Pt1000/0÷5V	3 = Yes	Yes	8 DIN Rail		3 = 4÷20mA/0÷10V	Screw
		4 = No	No	Open board		4 = PWM	Disconnectable + screw
		5 = No	Yes	Open board		5 = PWM	Screw
		6 = Yes	No	Open board			
		7 = Yes	Yes	Open board			

T/V Keyboards			4	0	-	A	0	0	D	0
---------------	--	--	---	---	---	---	---	---	---	---

CX Keyboards	C	X	6			0	-	A	0	0	N	0
--------------	---	---	---	--	--	---	---	---	---	---	---	---

A	D
Buzzer	Measurement unit
0 = No	C = °C
1 = Yes	F = °F



Touch Keyboards	T	6	6	0	T	-	1	0	0	D	0
-----------------	---	---	---	---	---	---	---	---	---	---	---

Touch Keyboards back-panel mounting	T	6	6	0	T	-	1	0	0	D	0	-	R
-------------------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---

D
Display
N = Red
R = Blue
W = White

XM200

Controller for Multiplexed Ventilated Applications



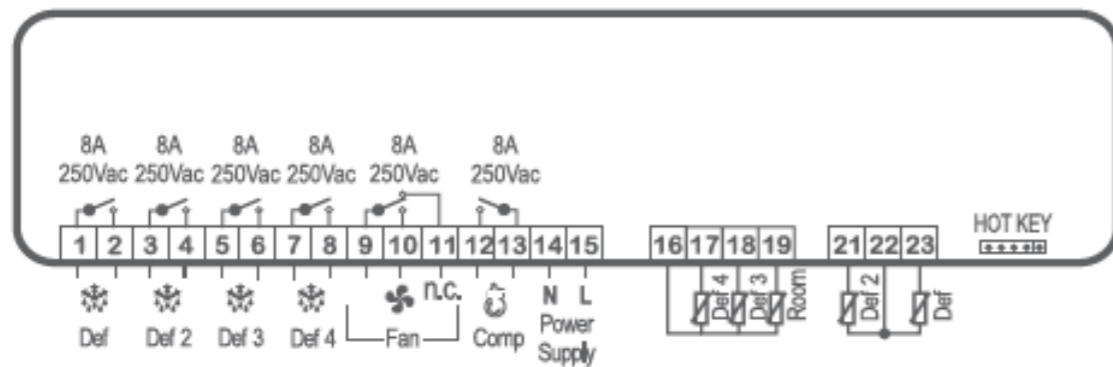
L: 38x185mm

XM244L

Digital controller in compact format for NT and LT ventilated applications with 4 defrost management

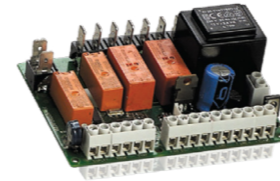
FEATURES	XWEB5000
Display: n° digits	± 3 d.p.
Keyboard: push buttons	5
Power supply	110, 230Vac
Probe inputs	
Thermostat	NTC
Defrost	NTC
Defrost 2	NTC
Defrost 3	NTC
Defrost 4	NTC
Relay outputs	
Compressor	8A
Defrost	8A
Defrost 2	8A
Defrost 3	8A
Defrost 4	8A
Fans	8A
Other Hot Key	
Hot Key/Prog Tool Kit output	pres
Serial output	TTL
Buzzer	opt
Real time clock	opt

XM244L



XM400

Controllers for Static or Ventilated Multiplexed Applications

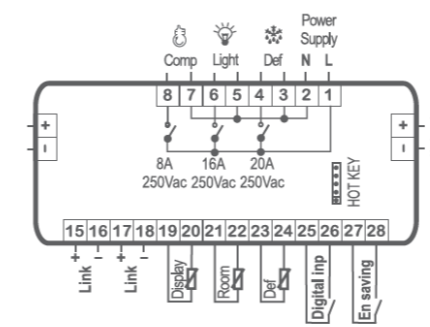


K: OS/GS

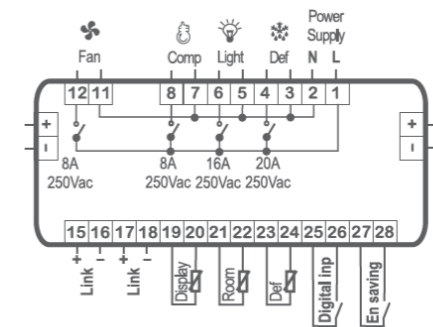
XM440K	Digital controller for NT and LT static applications
XM460K	Digital controller for NT and LT ventilated applications
XM470K	Digital controller for NT and LT ventilated applications with auxiliary output

FEATURES	XM440K	XM460K	XM470K
Display: n° digits	on keyboard ± 3 d.p.	110, 230Vac	on keyboard ± 3 d.p.
Keyboard: push buttons	6 (on CX640, T640, V640)	6 (on CX640, T640, V640)	8 (on T840, V840)
Power supply	110, 230Vac	110, 230Vac	110, 230Vac
Probe inputs			
Thermostat	NTC	NTC	NTC
Defrost	NTC	NTC	NTC
Display	NTC	NTC	NTC
AUX			
Suction pressure			
Condensing pressure			
Relay outputs			
Compressor	8A	8A	8A
Defrost	20A	20A	20A
Fans		8A	8A
Light	16A	16A	16A
Alarm			
AUX			8A
Other Hot Key			
Hot Key/Prog Tool Kit output	pres	pres	pres
Remote display output	X-REP	X-REP	X-REP
Serial output	TTL, RS485 opt	TTL, RS485 opt	TTL, RS485 opt
4÷20mA/0÷10V output	opt		
PWM output			
Valve driver output			
Buzzer	on keyboard	on keyboard	on keyboard
Real time clock	opt	opt	opt
Connection kit			

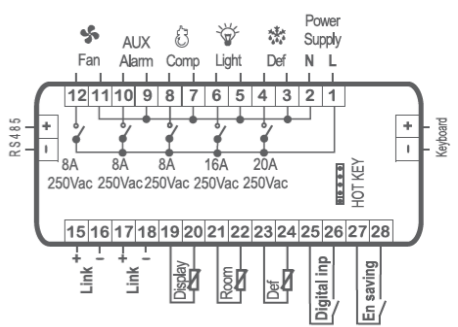
XM440K



XM460K



XM470K



XM600

Controllers for Ventilated Multiplexed Applications with EEV Management

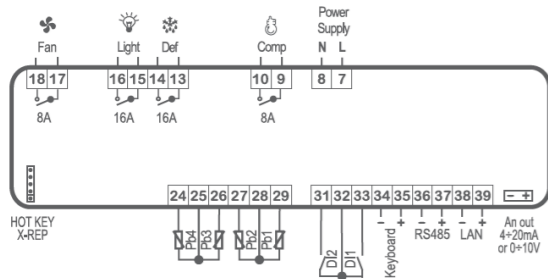


K: OS/8 DIN Rail D: 8 DIN Rail

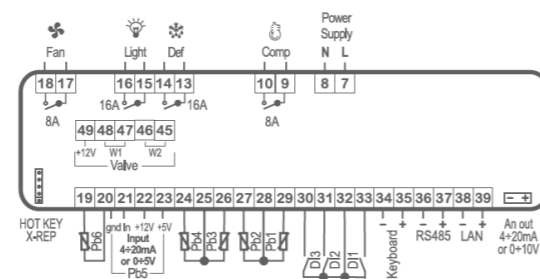
XM660K	Digital controller for NT and LT ventilated applications with high performance defrost
XM668D	Digital controller for NT and LT ventilated applications with high performance defrost and stepper electronic valve management
XM669K	Digital controller for NT and LT ventilated applications with high performance defrost and ON/OFF electronic valve management

FEATURES	XM660K	XM668D	XM669K
Display: n° digits	on keyboard ± 3 d.p.	on keyboard ± 3 d.p.	on keyboard ± 3 d.p.
Keyboard: push buttons	6 (on CX660, T660T)	6 (on CX660, T660T)	6 (on CX660, T660T)
Power supply	110, 230Vac	24Vac	110, 230Vac
Probe inputs			
Thermostat	NTC, Pt1000	NTC, Pt1000	NTC, Pt1000
Defrost	NTC, Pt1000	NTC, Pt1000	NTC, Pt1000
Display	NTC, Pt1000	NTC, Pt1000	NTC, Pt1000
AUX	NTC, Pt1000	NTC, Pt1000	NTC, Pt1000
Suction pressure		NTC, Pt1000, 4÷20mA, 0÷5V	NTC, Pt1000, 4÷20mA, 0÷5V
Condensing pressure		NTC, Pt1000	NTC, Pt1000
Digital inputs			
Start defrost, pressure switch, AUX, generic alarm, serious alarm mode, light, ON/OFF, holiday Energy saving	2 x config	3 x config	2 x config
Relay outputs			
Compressor	8A	8A	8A
Defrost	16A	16A	16A
Fans	8A	8A	8A
Light	16A	16A	16A
Alarm			8A
AUX			8A
Other Hot Key			
Hot Key/Prog Tool Kit output	pres	pres	pres
Remote display output	X-REP	X-REP	X-REP
Serial output	RS485 opt	RS485 opt	RS485 opt
4÷20mA/0÷10V output	opt	opt	opt
PWM output	opt	opt	opt
Valve driver output		stepper	ON/OFF up to 30W
Buzzer	on keyboard	on keyboard	on keyboard
Real time clock	pres	pres	pres
Connection kit	XM-FC16	XM-FC26	XM-FC21

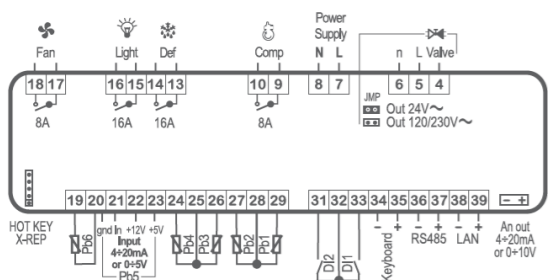
XM660K



XM668K



XM669K



XM600

Controllers for Ventilated Multiplexed Applications with EEV Management

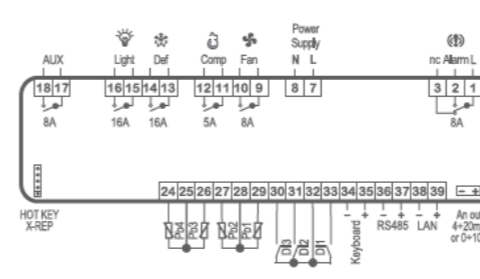


K: OS/8 DIN Rail D: 8 DIN Rail

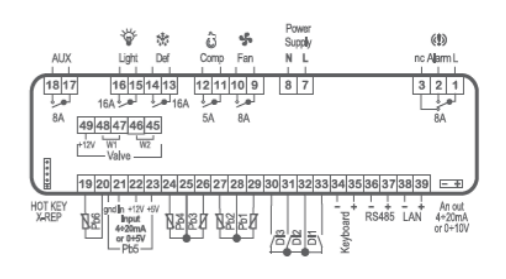
XM670K	Digital controller for NT and LT ventilated applications with high performance defrost and auxiliary and alarm outputs
XM678D	Digital controller for NT and LT ventilated applications with high performance defrost, stepper electronic valve management and auxiliary and alarm outputs
XM679K	Digital controller for NT and LT ventilated applications with high performance defrost, ON/OFF electronic valve management and auxiliary and alarm outputs

FEATURES	XM670K	XM678D	XM679K
Display: n° digits	on keyboard ± 3 d.p.	on keyboard ± 3 d.p.	on keyboard ± 3 d.p.
Keyboard: push buttons	6 (on CX660, T660T)	6 (on CX660, T660T)	6 (on CX660, T660T)
Power supply	110, 230Vac	24Vac	110, 230Vac
Probe inputs			
Thermostat	NTC, Pt1000	NTC, Pt1000	NTC, Pt1000
Defrost	NTC, Pt1000	NTC, Pt1000	NTC, Pt1000
Display	NTC, Pt1000	NTC, Pt1000	NTC, Pt1000
AUX	NTC, Pt1000	NTC, Pt1000	NTC, Pt1000
Suction pressure		NTC, Pt1000, 4÷20mA, 0÷5V	NTC, Pt1000, 4÷20mA, 0÷5V
Condensing pressure		NTC, Pt1000	NTC, Pt1000
Digital inputs			
Start defrost, pressure switch, AUX, generic alarm, serious alarm mode, light, ON/OFF, holiday Energy saving	3 x config	3 x config	3 x config
Relay outputs			
Compressor	5A	5A	5A
Defrost	16A	16A	16A
Fans	8A	8A	8A
Light	16A	16A	16A
Alarm	8A	8A	8A
AUX	8A	8A	8A
Other Hot Key			
Hot Key/Prog Tool Kit output	pres	pres	pres
Remote display output	X-REP	X-REP	X-REP
Serial output	RS485 opt	RS485 opt	RS485 opt
4÷20mA/0÷10V output	opt	opt	opt
PWM output	opt	opt	opt
Valve driver output		stepper	ON/OFF up to 30W
Buzzer	on keyboard	on keyboard	on keyboard
Real time clock	pres	pres	pres
Connection kit	XM-FC16	XM-FC26	XM-FC21

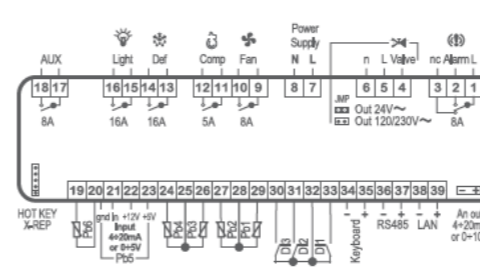
XM670K



XM678K



XM679K



XM400/600

Keyboards for Controllers in K Format



CX640	6 key keyboard (32x74mm) for XM400 controllers
T640	6 key keyboard (horizontal WING) for XM400 controllers
V640	6 key keyboard (vertical WING) for XM400 controllers
CX660	6 key keyboard (32x74mm) for XM600 controllers
T660T	6 key keyboard for XM600 controllers with TOUCH interface and red, white or blue display
T840	8 key keyboard (horizontal WING) for XM400 controllers
V840	8 key keyboard (vertical WING) for XM400 controllers

FEATURES	CX640	T640	V640	CX660	T660T	T840	T840
Display: n° digits	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.
Keyboard: push buttons	6	6	6	6	6	8	8
Power supply	from controller	from controller	from controller	from controller	from controller	from controller	from controller
Slave module	XM440K	XM440K	XM440K	XM660K	XM660K	XM470K	XM470K
	XM460K	XM460K	XM460K	XM668D	XM668D	XM470K	XM470K
				XM669K	XM669K		
				XM670K	XM670K		
			XM678D	XM678D			
			XM678D	XM678D			
			XM679D	XM679D			
Buzzer	opt	opt	opt	opt	pres	opt	opt

CX and TOUCH keyboards are provided with a wide display with integrated icons of real time situation and of measurement unit, for clear and continuous monitoring.

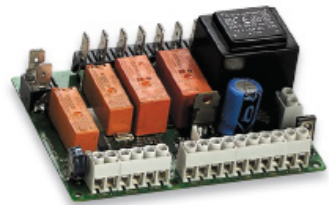


The Power Modules in K Format are Available in 3 Different Versions

OS: open board for XM400 and XM600

GS: standard plastic case for XM400

8 DIN Rail: with plastic housing for XM600



Accessories

XM-RTC
Real time clock standard board for XM400



XM-FC16
Female connector kit 16 pins for XM660K and XM670K
XM-FC21
Female connector kit 21 pins for XM669K and XM679K
XM-FC26
Female connector kit 26 pins for XM668D and XM678D



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