









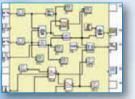
Millenium 3 logic controllers



Гуре		Part number	Power supply	Inputs	Outputs
With display					
	CD12	88970041	24 V <u></u>	8 digital (of which 4 are analogue)	4 x 8 A relays
South .		88970042	24 V <u></u>	8 digital (of which 4 are analogue)	4 solid state 0.5 A (of which 1 is PWM)
ALC: NO DE LE		88970043	100 → 240 V へ	8 digital	4 x 8 A relays
		88970044	24 V \sim	8 digital	4 x 8 A relays
		88970045	12 V <u>—</u>	8 digital (of which 4 are analogue)	4 x 8 A relays
	CD20	88970051	24 V <u>—</u>	12 digital (of which 6 are analogue)	8 x 8 A relays
THE D		88970052	24 V <u>—</u>	12 digital (of which 6 are analogue)	8 solid state 0.5 A (of which 4 are PWM)
REAL		88970053	100 → 240 V ~	12 digital	8 x 8 A relays
		88970054	24 V \sim	12 digital	8 x 8 A relays
		88970055	12 V	12 digital (of which 6 are analogue)	8 x 8 A relays
Without display	/				
	CB12	88970021	24 V <u></u>	8 digital (of which 4 are analogue)	4 x 8 A relays
		88970023	100 → 240 V へ	8 digital	4 x 8 A relays
1		88970024	24 V \sim	8 digital	4 x 8 A relays
		88970840 NEW	12 V <u>—</u>	8 digital (of which 4 are analogue)	4 solid state 0.5 A (of which 1 is PWM)
An Anno sector	CB20	88970031	24 V <u>—</u>	12 digital (of which 6 are analogue)	8 x 8 A relays
En la		88970033	100 → 240 V へ	12 digital	8 x 8 A relays
		88970034	24 V \sim	12 digital	8 x 8 A relays



Ergonomic display



Optimum memory capacity

Millenium 3 logic controllers operate with the following software:



M3 SOFT

Multilingual programming software (CD-ROM) including a library of specific functions. Part no.: 88970111

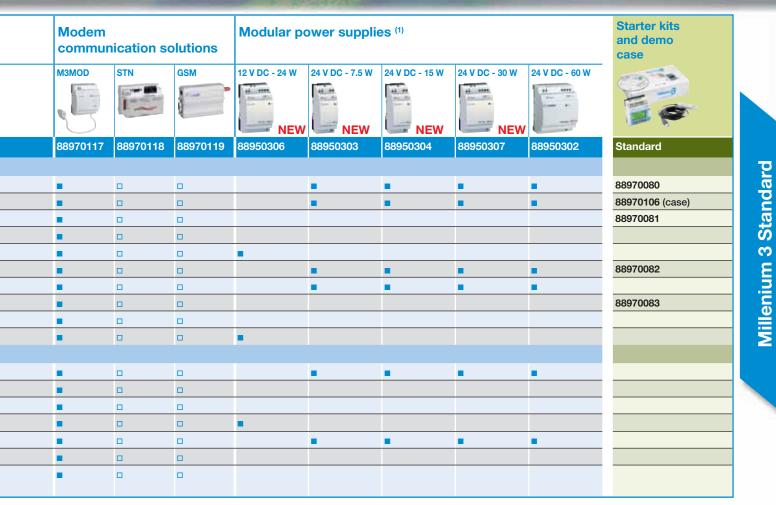
M3 ALARM

Alarm management software (CD-ROM) Part no.: 88970116 This software is used alongside the M3MOD communication interface (part no.: 88970117).

For all details of hardware adaptation, see pages 64-65.



"Compact" range selection guide



Compatible

Mounted with the M3MOD:

- STN modem.

- or GSM modem

⁽¹⁾ Find the whole "Power Supplies" offer on pages 58-59.





The 4 starter kits each contain:

- 1 CD12 or CD20 logic controller + 1 USB link cable + 1 M3 SOFT programming software application (CD-ROM) including a library of specific functions. Part no.: 88970080 / 88970081 / 88970082 / 88970083

The demonstration case contains:

1 CD12 logic controller + 1 USB link cable + 1 M3 SOFT programming software application (CD-ROM) including the library of specific functions + 1 voltage adaptor + 1 I/O simulation card. Part no.: 88970106



➡ "Compact" range with display

- Budget solution with display
- Memory: 120 lines in LADDER language and up to 350 "typical" blocks in FBD language
- LCD with 4 lines of 18 characters and configurable backlighting
- Selective parameter setting: You can choose the parameters that can be adjusted on the front panel
- Analogue inputs 0-10 V--- or 0-20 mA/Pt 100 with converters (see page 50)





Part numbers

Туре	Input	Output	Supply	Code
CD12	8 digital (including 4 analogue)	4 relays 8 A	24 V ===	88970041
	8 digital (including 4 analogue)	4 solid state 0.5 A (including 1 PWM)	24 V	88970042
	8 digital	4 relays 8 A	100 → 240 V ~	88970043
	8 digital	4 relays 8 A	24 V \sim	88970044
	8 digital (including 4 analogue)	4 relays 8 A	12 V	88970045
CD20	12 digital (including 6 analogue)	8 relays 8 A	24 V	88970051
	12 digital (including 6 analogue)	8 solid state 0.5 A (including 4 PWM)	24 V	88970052
	12 digital	8 relays 8 A	100 → 240 V ~	88970053
	12 digital	8 relays 8 A	24 V \sim	88970054
	12 digital (including 6 analogue)	8 relays 8 A	12 V	88970055

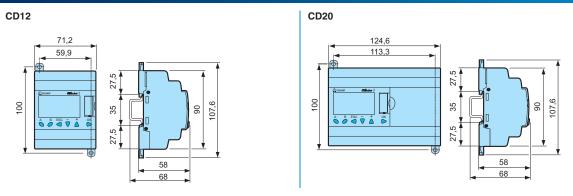
Accessories

Туре	Description	Code
M3 SOFT	Multilingual programming software containing specific library functions (CD-ROM)	88970111
PA	EEPROM memory cartridge	88970108
	3 m serial link cable: PC → Millenium 3	88970102
	3 m USB link cable: PC \rightarrow Millenium 3	88970109
	Millenium 3 → Bluetooth interface (class A 10 m)	88970104

Starter kits (see page 27 for details)

Туре	Input	Output	Supply	Code
Kit 12	8 digital (including 4 analogue)	4 relays	24 V	88970080
	8 digital	4 relays	100 → 240 V ~	88970081
Kit 20	12 digital (including 6 analogue)	8 relays	24 V	88970082
	12 digital	8 relays	100 → 240 V ~	88970083

Dimensions (mm)



Input / Output Connections

See Page 40-43 for details or to find instruction sheets visit: www.millenium3.crouzet.com in "Download"

For adapted products, see page page 64-65



"Compact" range without display

- Simply a control system solution inside a modular casing
- Memory: 120 lines in LADDER language and up to 350 "typical" blocks in FBD language
- No display or parameter-setting buttons to avoid tampering by unauthorised users
- Analogue inputs 0-10 V- or 0-20 mA/Pt 100 with converters (see page 50)





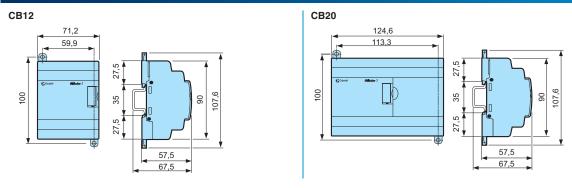
CB20

Part numbers						
Туре	Input	Output	Supply	Code		
CB12	8 digital (including 4 analogue)	4 relays 8 A	24 V	88970021		
	8 digital	4 relays 8 A	100 $ ightarrow$ 240 V \sim	88970023		
	8 digital	4 relays 8 A	24 V \sim	88970024		
	8 digital (including 4 analogue)	4 solid state 0.5 A (including 1 PWM)	12 V	88970840		
CB20	12 digital (including 6 analogue)	8 relays 8 A	24 V	88970031		
	12 digital	8 relays 8 A	100 $ ightarrow$ 240 V \sim	88970033		
	12 digital	8 relays 8 A	24 V \sim	88970034		

Accessories

Туре	Description	Code
M3 SOFT	Multilingual programming software containing specific library functions (CD-ROM)	88970111
PA	EEPROM memory cartridge	88970108
	3 m serial link cable: $PC \rightarrow Millenium 3$	88970102
	3 m USB link cable: PC \rightarrow Millenium 3	88970109
	Millenium 3 → Bluetooth interface (class A 10 m)	88970104

Dimensions (mm)



Input / Output Connections

See Page 40-43 for details or to find instruction sheets visit: www.millenium3.crouzet.com in "Download"









Millenium 3 logic controllers



Туре	Part number		Power supply	Inputs	Outputs
	With XD10/ XD26 display	Without display XB10/XB26			
	88970141	88970131 NEW	24 V	6 digital (of which 4 are analogue)	4 x 8 A relays
	88970142	88970132 NEW	24 V <u>—</u>	6 digital (of which 4 are analogue)	4 solid state 0.5 A (of which 1 is PWM)
a man	88970143	88970133 NEW	100 → 240 V ~	6 digital	4 x 8 A relays
	88970144	88970134 NEW	24 V \sim	6 digital	4 x 8 A relays
	88970161	88970151 NEW	24 V <u>—</u>	16 digital (of which 6 are analogue)	10 relays, of which 8 are 8 A and 2 are 5 A
	88970162	88970152 NEW	24 V <u>—</u>	16 digital (of which 6 are analogue)	10 solid state 0.5 A (of which 4 are PWM)
	88970163	88970153 NEW	100 → 240 V ~	16 digital	10 relays, of which 8 are 8 A and 2 are 5 A
	88970164	88970154 NEW	24 V \sim	16 digital	10 relays, of which 8 are 8 A and 2 are 5 A
	88970165	88970155 NEW	12 V <u>—</u>	16 digital (of which 6 are analogue)	10 relays, of which 8 are 8 A and 2 are 5 A
	88970814 NEW	-	12 V <u>—</u>	16 digital (of which 6 are analogue)	10 solid state 0.5 A (of which 4 are PWM)

Extensions	"Sand	wich"			
Туре		Part number	Power supply	Inputs	Outputs
TOR					
	XE10	88970321	Via the 24 V controller	6 digital	4x5A relays, 1 of which is a changeover relay
1		88970323	100 → 240 V ~	6 digital	4x5A relays, 1 of which is a changeover relay
		88970324	24 V \sim	6 digital	4x5A relays, 1 of which is a changeover relay
Туре		Part number	Power supply	Mains	Characteristics of exchanges (words)
Communication					
- 1	XN05	88970270	Via the 24 V controller	Modbus TCP Ethernet protocol	Read: 8 - Read/Write: 8 Clock: 4 - Status: 1
1010	XN03	88970250	Via the 24 V controller	Modbus RS-485 (slave)	Read: 8 - Read/Write: 8 Clock: 4 - Status: 1
	XN06	88972250 NEW	Via the 24 V controller	Modbus RS-485 (slave)	Read: 8 - Read/Write: 8 Clock: 4 - Status: 1



Millenium 3 logic controllers operate with the following software: M3 SOFT

Multilingual programming software (CD-ROM) including the library of specific functions. Part no.: 88970111

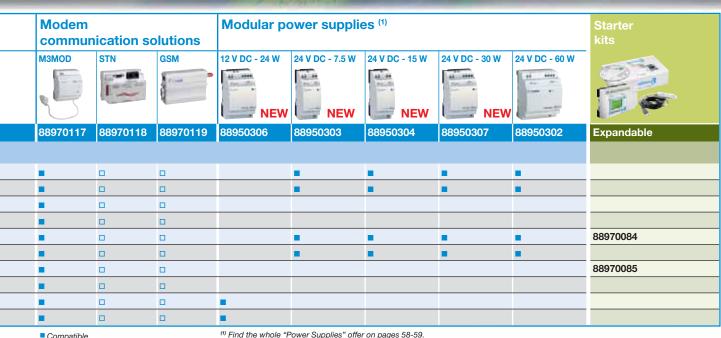
M3 ALARM

Alarm management software (CD-ROM) Part no.: 88970116 This software is used alongside the M3MOD communication interface (part no.: 88970117).

For all details of hardware adaptation, see pages 64-65.



"Expandable" range selection guide



Compatible
Mounted with the M3MOD:

- STN modem, - or GSM modem

mination extensions Tor

Terminatio	i exten	510115			
Туре		Part number	Power supply	Inputs	Outputs
Digital					
100	XR06	88970211	Via the 24 V controller	4 digital	2 x 8 A relays
		88970213	Via the 100 $ ightarrow$ 240 V \sim controller	4 digital	2 x 8 A relays
		88970214	Via the 24 V \sim controller	4 digital	2 x 8 A relays
		88970215	Via the 12 V controller	4 digital	2 x 8 A relays
	XR10	88970221	Via the 24 V controller	6 digital	4 x 8 A relays
		88970223	Via the 100 $ ightarrow$ 240 V \sim controller	6 digital	4 x 8 A relays
		88970224	Via the 24 V \sim controller	6 digital	4 x 8 A relays
		88970225	Via the 12 V controller	6 digital	4 x 8 A relays
	XR14	88970231	Via the 24 V controller	8 digital	6 relays, of which 4 are 8 A and 2 are 5 A
-		88970233	Via the 100 $ ightarrow$ 240 V \sim controller	8 digital	6 relays, of which 4 are 8 A and 2 are 5 A
Careford State		88970234	Via the 24 V \sim controller	8 digital	6 relays, of which 4 are 8 A and 2 are 5 A
		88970235	Via the 12 V controller	8 digital	6 relays, of which 4 are 8 A and 2 are 5 A
Analogue					
D	XA04	88970241	Via the 24 V controller	1 analogue (0-10 V/0-20 mA), 1 analogue (0-10 V/0-20 mA/Pt100)	2 analogue (0-10 v)/PWM



The 2 starter kits each contain:

1 XD26 logic controller + 1 USB link cable +

1 M3 SOFT programming software application (CD-ROM) including a library of specific functions.

Part no.: 88970084 / 88970085



"Expandable" range with display

- "High-performance" expandable solution with display
 Extended memory: 120 lines in LADDER language and
- up to 700 "typical" blocks in FBD language LCD with 4 lines of 18 characters and configurable
- backlighting
 Selective parameter setting: You can choose the parameters that can be adjusted on the front panel
 Analogue inputs 0-10 V --- or 0-20 mA/Pt 100 with
- Analogue inputs 0-10 V ---- or 0-20 mA/Pt 100 with converters (see page 50)
- Open to XN network communication extensions and digital I/O or analogue extensions





Part numbers

Туре	Input	Output	Supply	Code
XD10	6 digital (including 4 analogue)	4 relays 8 A	24 V	88970141
	6 digital (including 4 analogue)	4 solid state 0.5 A (including 1 PWM)	24 V	88970142
	6 digital	4 relays 8 A	100 → 240 V ~	88970143
	6 digital	4 relays 8 A	24 V \sim	88970144
XD26	16 digital (including 6 analogue)	10 relays (8 x 8 A relay and 2 x 5 A relay)	24 V ===	88970161
	16 digital (including 6 analogue)	10 solid state 0.5 A (including 4 PWM)	24 V	88970162
	16 digital	10 relays (8 x 8 A relay and 2 x 5 A relay)	100 → 240 V ~	88970163
	16 digital	10 relays (8 x 8 A relay and 2 x 5 A relay)	24 V \sim	88970164
	16 digital (including 6 analogue)	10 relays (8 x 8 A relay and 2 x 5 A relay)	12 V	88970165
	16 digital (including 6 analogue)	10 solid state 0.5 A (including 4 PWM)	12 V	88970814

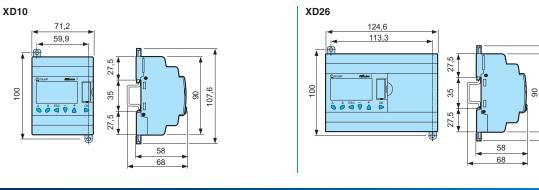
Accessories

Туре	Description	Code
M3 SOFT	Multilingual programming software containing specific library functions (CD-ROM)	88970111
PA	EEPROM memory cartridge	88970108
	3 m serial link cable: PC → Millenium 3	88970102
	3 m USB link cable: PC \rightarrow Millenium 3	88970109
	Millenium 3 → Bluetooth interface (class A 10 m)	88970104

Starter kits (see page 31 for details)

Туре	Input	Output	Supply	Code
Kit 26	16 digital (including 6 analogue)	10 relays (8 x 8 A relay and 2 x 5 A relay)	24 V	88970084
	16 digital	10 relays (8 x 8 A relay and 2 x 5 A relay)	100 → 240 V ~	88970085

Dimensions (mm)



Input / Output Connections

See Page 40-43 for details or to find instruction sheets visit: www.millenium3.crouzet.com in "Download"



07.6

→ "Expandable" range without display

- "High-performance" expandable solution without display
- Extended memory: 120 lines in LADDER language and up to 700 "typical" blocks in FBD language
- No display or parameter-setting buttons to avoid tampering by unauthorised users
- Analogue inputs 0-10 V == or 0-20 mA/Pt 100 with converters (see page 50)
- Open to XN network communication extensions and digital I/O or analogue extensions



XB10



XB26

Part numbers

Туре	Input	Output	Supply	Code
XB10	6 digital (including 4 analogue)	4 relays 8 A	24 V	88970131*
	6 digital (including 4 analogue)	4 solid state 0.5 A (including 1 PWM)	24 V ===	88970132
	6 digital	4 relays 8 A	100 $ ightarrow$ 240 V \sim	88970133*
	6 digital	4 relays 8 A	24 V \sim	88970134
XB26	16 digital (including 6 analogue)	10 relays (8 x 8 A relay and 2 x 5 A relay)	24 V ===	88970151
	16 digital (including 6 analogue)	10 solid state 0.5 A (including 4 PWM)	24 V ===	88970152
	16 digital	10 relays (8 x 8 A relay and 2 x 5 A relay)	100 $ ightarrow$ 240 V \sim	88970153
	16 digital	10 relays (8 x 8 A relay and 2 x 5 A relay)	24 V \sim	88970154
	16 digital (including 6 analogue)	10 relays (8 x 8 A relay and 2 x 5 A relay)	12 V	88970155

*Available 2nd quarter of 2008

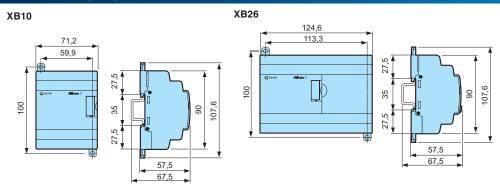
General characteristics

See page 22, except: Certifications

UL, CSA

Accessories Туре Description Code M3 SOFT Multilingual programming software containing specific library functions (CD-ROM) 88970111 PA EEPROM memory cartridge 88970108 PA 3 m serial link cable: PC → Millenium 3 88970102 3 m USB link cable: PC → Millenium 3 PA 88970109 88970104 Millenium 3 → Bluetooth interface (class A 10 m) PA

Dimensions (mm)



Input / Output Connections

See Page 40-43 for details or to find instruction sheets visit: www.millenium3.crouzet.com in "Download"



33

→ Sandwich communication extensions for XD10/XB10 & XD26/XB26

- Exchange of input/output state or of internal values via communication networks
- Power supply via the controller





XN06

XN05

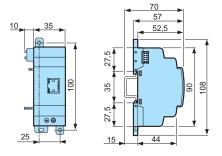
Part nu	Part numbers				
Туре	Description	Supply	Code		
XN03	Modbus RS-485 slave communication extension 4 words	Via the 24 V controller	88970250		
XN06	Modbus RS-485 slave communication extension 8 words	Via the 24 V controller	88972250		
XN05	Ethernet protocol TCP Modbus extension	Via the 24 V controller	88970270		

Characteristics of communication extensions

General characteristics	88970250 & 889722	50	88970270
See page 22, except:			
Certifications	UL, CSA, GL (UL, C	SA: 88972250)	UL, CSA GL pending
Earthing	the product	eference guide supplied with	Yes, refer to the quick reference guide supplied with the product
Operating temperature	-20 → +55°C (+40°C enclosure) in accorda 2-1 and IEC/EN 6006	ance with IEC/EN 60068-	0 → +55°C (+40°C in a non-ventilated enclosure) in accordance with IEC 60068-2-1 and IEC 60068-2-2
Cable length	Maximum length of tl (9600 Baud max, AV		Maximum length between 2 controllers: 100 m
Communication parameters	88970250 & 889722	50	88970270
Type of link	2 or 4-wire; RTU or A	SCII	-
Transmission rate (Bauds)	1200, 2400, 4800, 96 57600	600, 19200, 28800, 38400,	-
Parity	None; even; odd		-
Addressing	1 → 247		Static or dynamic
Characteristics of exchanges	88970250	88972250	88970270
Programming with Ladder language			
Image of smart relay I/O	4	4	-
Status	1	1	-
Programming with FBD language			
Read	4	8	8
Read/Write	4	8	8
Clock words	4	12	4
Status words	1	1	1

Dimensions (mm)

XN03 - XN05 - XN06



For adapted products, see page 64-65



→ Digital sandwich extension for XD10/XB10 and XD26/XB26

- Can be used to reach up to 50 inputs/outputs in conjunction with XR14 termination extensions
- Relay outputs one of which is a changeover relay

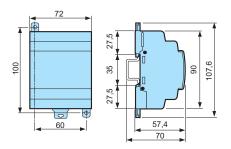


Part numbers

Туре	Input	Output	Supply	Code
XE10	6 digital	4 relays 5 A (1 of which is a changeover relay)	Via the 24 V controller	88970321
	6 digital	4 relays 5 A (1 of which is a changeover relay)	100 → 240 V ~	88970323
	6 digital	4 relays 5 A (1 of which is a changeover relay)	24 V \sim	88970324

Dimensions (mm)





Input / Output Connections

See Page 40-43 for details or to find instruction sheets visit: www.millenium3.crouzet.com in "Download"



For adapted products, see page page 64-65

→ Digital extension for XD10/XB10 and XD26/XB26

- Power supply via the controller at the same voltage as the inputs
- Number of inputs/outputs can be configured in accordance with your requirements



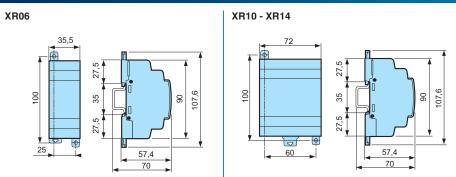




Part numbers

Input	Output	Supply	Code
4 digital	2 relays 8 A	Via the 24 V == controller	88970211
4 digital	2 relays 8 A	Via the 100 $ ightarrow$ 240 V \sim controller	88970213
4 digital	2 relays 8 A	Via the 24 V \sim controller	88970214
4 digital	2 relays 8 A	Via the 12 V controller	88970215
6 digital	4 relays 8 A	Via the 24 V controller	88970221
6 digital	4 relays 8 A	Via the 100 $ ightarrow$ 240 V \sim controller	88970223
6 digital	4 relays 8 A	Via the 24 V \sim controller	88970224
6 digital	4 relays 8 A	Via the 12 V == controller	88970225
8 digital	6 relays (4 x 8 A relay and 2 x 5 A relay)	Via the 24 V controller	88970231
8 digital	6 relays (4 x 8 A relay and 2 x 5 A relay)	Via the 100 $ ightarrow$ 240 V \sim controller	88970233
8 digital	6 relays (4 x 8 A relay and 2 x 5 A relay)	Via the 24 V \sim controller	88970234
8 digital	6 relays (4 x 8 A relay and 2 x 5 A relay)	Via the 12 V controller	88970235
	4 digital 4 digital 4 digital 4 digital 6 digital 6 digital 6 digital 6 digital 8 digital 8 digital 8 digital 8 digital	4 digital2 relays 8 A4 digital2 relays 8 A4 digital2 relays 8 A4 digital2 relays 8 A4 digital2 relays 8 A6 digital4 relays 8 A6 digital6 relays 8 A6 digital6 relays 8 A6 digital6 relays 8 A6 digital6 relays 6 A8 digital6 relays 6 A relay and 2 x 5 A relay)8 digital6 relays (4 x 8 A relay and 2 x 5 A relay)8 digital6 relays (4 x 8 A relay and 2 x 5 A relay)8 digital6 relays (4 x 8 A relay and 2 x 5 A relay)	4 digital2 relays 8 AVia the 24 V == controller4 digital2 relays 8 AVia the 100 \rightarrow 240 V \sim controller4 digital2 relays 8 AVia the 24 V \sim controller4 digital2 relays 8 AVia the 24 V \sim controller6 digital4 relays 8 AVia the 24 V == controller6 digital4 relays 8 AVia the 24 V == controller6 digital4 relays 8 AVia the 100 \rightarrow 240 V \sim controller6 digital4 relays 8 AVia the 100 \rightarrow 240 V \sim controller6 digital4 relays 8 AVia the 24 V == controller6 digital4 relays 8 AVia the 24 V \sim controller6 digital6 relays (4 x 8 A relay and 2 x 5 A relay)Via the 24 V == controller8 digital6 relays (4 x 8 A relay and 2 x 5 A relay)Via the 100 \rightarrow 240 V \sim controller8 digital6 relays (4 x 8 A relay and 2 x 5 A relay)Via the 24 V == controller8 digital6 relays (4 x 8 A relay and 2 x 5 A relay)Via the 24 V \sim controller8 digital6 relays (4 x 8 A relay and 2 x 5 A relay)Via the 24 V \sim controller

Dimensions (mm)



Input / Output Connections

See Page 40-43 for details or to find instruction sheets visit: www.millenium3.crouzet.com in "Download"

➔ Analogue extension for XD10/XB10 and XD26/XB26

- Direct connection of analogue 0-10 V or 0-20 mA or Pt 100 inputs (10 bits) can be configured using the M3 SOFT
- 2 analogue 0-10 V or PWM outputs (10 bits) can be configured using the M3 SOFT software
- Ramp can be parameterised for outputs used as 0-10 V outputs
- Power supply via the controller





Part numbers

Туре	Input	Output	Supply	Code
XA04	1 analogue (0-10 V / 0-20 mA), 1 analogue (0-10 V / 0-20 mA / Pt100)	2 analogue (0-10 V) / PWM	Via the 24 V controller	88970241

For adapted products, see page page 64-65



General characteristics of analogue extension 88970241

See page 22, except:

See page 22, except:	
Certifications	UL, CSA
	GL (pending)
Earthing	Yes, refer to the quick reference guide supplied with the product

Analogue inputs

Inputs used as analogue inputs	0-10 V	0-20 mA	Pt 100
Input	IP and IQ	IP and IQ	IQ
Input range	0 → 10 V ===	0 → 20 mA	-25 → 125°C
Input impedance	≥ 18 kΩ	246 Ω	-
Maximum non destructive current/voltage	30 V	30 mA	-
Value of LSB	9.8 mV	20 µA	0.15°C
Input type	Common mode	Common mode	Pt 100 probe - IEC 751 - 3-wire
Resolution	10 bits	10 bits	10 bits
Conversion time	Module cycle time	Module cycle time	Module cycle time
Accuracy at 25°C	± 1%	± 1%	±1.5°C
Accuracy at 55°C	± 1%	± 1%	±1.5°C
Isolation between analogue channel and power	None	None	None
supply			
Longueur câble	10 m maximum, with shielded	10 m maximum, with shielded	10 m maximum, with shielded
	cable (sensor not isolated)	cable (sensor not isolated)	cable (sensor not isolated)
Protection against polarity inversions	Command ignored	Command ignored	Command ignored

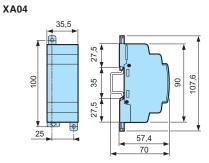
Analogue outputs

Range output	$0 \rightarrow 10 \text{ V}$
Input type	Resistive
Max. load	10 mA
Value of LSB	10 mV
Resolution	10 bits
Conversion time	Controller cycle time
Accuracy at 25°C	±1% of full scale
Accuracy at 55°C	±1% of full scale
Repeat accuracy at 55 °C	± 1%
Isolation between analogue channel and power	None
supply	
Cable length	10 metres maximum, with shielded cable (sensor not isolated)
Protection against polarity inversions	Yes

PWM

Range output	V power supply
Max. load	\geq 1.2 k Ω (I \leq 20 mA)
PWM cyclic ratio	1024 steps
Frequency	78 Hz, 312.5 Hz, 666.6 Hz, 1000 Hz, 1250 Hz, 1428 Hz, 1666 Hz, 2000 Hz
Accuracy	1% across the entire temperature range for PWM ratios from 5% to 95%
Built-in protections	Against overvoltages: Yes

Dimensions (mm)



Input / Output Connections

See Page 40-43 for details or to find instruction sheets visit: www.millenium3.crouzet.com in "Download"



→ Modem communication plug and play solutions

- For remote control of your application
- Automatic notification of alarms via SMS (GSM Modem) / email or on a PC with M3 ALARM software.
- Millenium 3 program can be downloaded, modified and sent
- Input and output states, as well as all program values, can be polled and controlled remotely
- 2 types of pre-configured ready-to-use modem:
 STN modem for wired transmission networks
 - GSM modem for wireless communication



M3MOD





STN

GSM

Part numbers				
Туре	Description	Supply	Code	
M3MOD	Modem communication interface	12-24 V ===	88970117	
STN	STN modem	12-24 V ===	88970118	
GSM	GSM modem 850/900/1800/1900 MHz	12-24 V	88970119	

Accessories		
Туре	Description	Code
Type PA	1.80 m serial link cable: DB9/DB9	88970123
M3 ALARM	Alarm management software (CD-ROM)	88970116

Characteristics of the communication Modem system

General characteristics of the modem communication	88970117	88970118	88970119
See page 22, except:			
Certifications	UL, CSA	UL, CSA	UL, CSA, CE, FCC, IC, PTCBB_B&TTE

Power supply	88970117	88970118	88970119
Nominal voltage (V)	12 → 24 V ===	12 → 24 V ===	12 → 24 V ===
Operating limits	-13% / + 20%	-13% / + 5%	-54% / + 33%
	or 10 → 28.8 V	or 10 → 30 V ===	or 5.5 → 32 V ===
Ripple	5% max.	-	-
Nominal current under 12 V DC	30 mA	140 mA	165 mA
Nominal current under 24 V DC	30 mA	70 mA	87 mA
Peak current on energisation	550 mA	9600 mA	2100 mA at 5.5 V
Max. absorbed power	1.1 W	-	2.1 W
Immunity from micro power cuts	1 ms, repetition 20 times	No	-
Protection against polarity inversions	Yes	-	No
Fuse protection	1 A fuse	-	With fuse 2.5 A

Characteristics of the "COM-M3" link with the controller

Type of connector	Specific Millenium
Type of link	Specific Millenium communication protocol
Compatibility	Only with Millenium controllers version \geq V2.1
Isolation of "Com-M3" connector from the "Com-M" connector	Via optocoupler \sim 1780 V
Isolation of "Com-M3" connector from the ± supply terminals	Via optocoupler \sim 1780 V

Characteristics of the "COM-M3" link with the modem

Type of connector	Specific Millenium
Type of link with Modem connector cable	RS 232 serial (supplied with the communication interface)
Compatibility	Only with Millenium controllers version \geq V2.1
Analogue RTC modem compatibility	AT commands
GSM modem compatibility	AT commands
Isolation of "Com-M" connector from the Modem	Via link cable to Modem (supplied)
Isolation of "Com-M" connector from the ± supply terminals	Via link cable to Modem (supplied)

