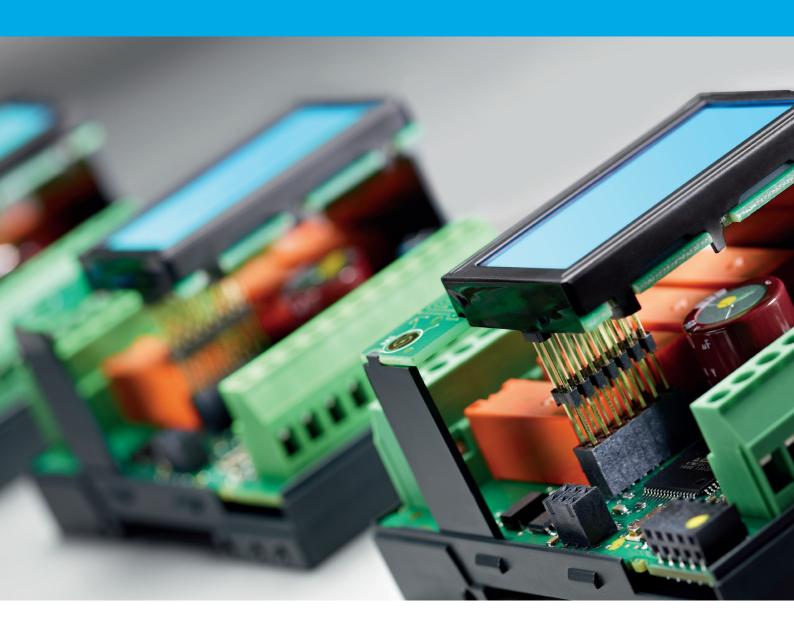
CROUZET AUTOMATION SELECTION GUIDE







3

ABOUT CROUZET AUTOMATION

Supported by an experienced technical team, Crouzet Automation is a pioneer in the simplification of programming. The brand offers the easiest-to-use and most adaptable alternative automation solution for specialized and demanding

Crouzet Automation is a brand of InnoVista Sensors™.



InnoVista Sensors™: your trusted partner of choice to face industrial challenges of today and tomorrow.

InnoVista Sensors™ is a worldwide industrial specialist of sensors, controllers and actuators for automated systems.

Through its brands, Crouzet Aerospace, **Crouzet Automation, Crouzet Control, Crouzet Motors, Crouzet Switches and Systron Donner Inertial.**

InnoVista Sensors™ offers a wide range of reliable, efficient and customizable components dedicated to the Aerospace & Defence, Transportation and Industrial market and segments.

Thanks to the recognized expertise of its teams and a strong innovation policy, InnoVista Sensors™ brings performance enhancing solutions to its customers worldwide.

www.innovistasensors.com

Designs & Manufactures







Actuators

For







Transportation



Industry

With commercial brands













ADAPTATION WHEEL

To meet market expectations and provide customers with the right solutions within the shortest timeframes, Crouzet Automation has structured its processes around the different types of product available: standard products, adapted products or products specially developed for a customer. Introducing the adaptation wheel...





A complete range of logic controllers immediately available to create your automation application.

COMPONENTS WITH ADDED **VALUE**

Standard products complemented by factorymounted auxiliaries or accessories (connectors. wire outputs, cables, etc.) in order to assist integration into your equipment, simplify your logistics and maximize the reliability of your installation.

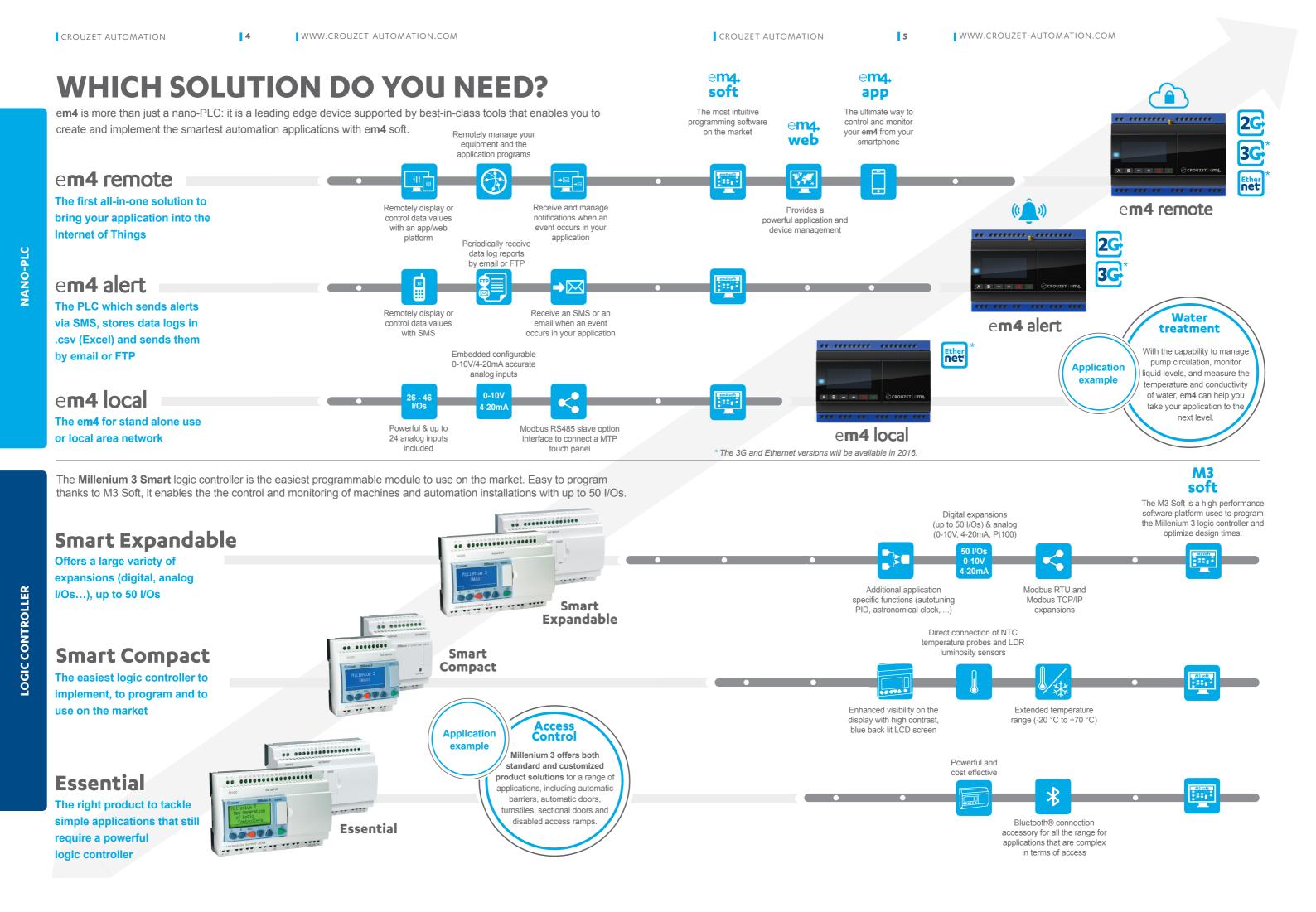


ADAPTED PRODUCTS

Defined jointly with our technical sales teams, these adapted products offer the exact performance and functions you need for your application.



All our design and industrialization expertise in automation systems at your service, to design and create specific products dedicated to your application.



The Millenium 3 logic controller and the em4 nano-PLC are the easiest to use programmable modules in various applications. With simple and intuitive software, controlling and monitoring of machines and automation installations is incredibly simple.

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Millenium Smart Expandable

Offers a large variety of expansions (digital, analog I/Os...), up to 50 I/Os

6

- Expandable versions: 10 I/Os and 26 I/Os
- Exists with or without display, in 24 V==-, 12 V==, 24 V \sim and 100 \rightarrow 240 V \sim



Highly visible blue



of NTC temperature



application specific functions



temperature range (-20 °C to +70 °C)

Highly visible blue

Direct connection of NTC temperature

orobes

application specific functions

connection

accessory

effective

50 I/Os

temperature range

(-20 °C to +70 °C)

Powerful and cost

Digital expansions

up to 50 I/Os

Analog 0-10 V, 4-20 mA,

Pt100 expansions

Modbus RTU and Modbus TCP/IP

Simplified Bluetooth[®]

connectivity



Millenium 3 toolbox

M3 soft



Millenium Smart Compact

The easiest logic controller to implement, to program and to use on the market

- Compact versions: 12 I/Os and 20 I/Os
- Exist with or without display, in 24 V==, 12 V==, 24 V \sim and 100 \rightarrow 240 V \sim versions



Multiple configuration options derived from

an extensive product range with numerous accessories

Application-specific solutions thanks to dedicated and easy to use specific function blocks

Millenium 3 toolbox

M3 soft



Millenium Essential

The right product to tackle simple applications that still require a powerful logic

- Compact versions: 12 I/Os and 20 I/Os
- Expandable versions: 10 I/Os and 26 I/Os
- Exist with or without display, in 24 V---, 12 V--versions

The Millenium 3 Essential range is the cost effective solution for simple applications

Millenium 3 toolbox

M3 soft

. A B - + 5 V GCROUZET

em4 remote

The first all-in-one solution to bring your application into the Internet of Things

First PLC capable of fleet management including map localization

7

- > Highly secured solution, using e-banking practices and infrastructure
- > Expandable version: 26 I/Os up to 46 I/Os



SIM card (2G & 3G versions) & remote management subscription included for one year (em4 web, em4 app)

e**m4** toolbox

em4. soft

em4. web

em4, app



Equipment leet management



Advanced event management



Secured platform and connections



Advanced data historv





Automatic clock

Advanced remote services for

Advanced monitoring and







Customizable web interface





A B - + 5 V @CROUZET em

em4 alert

Nano-PLC that can alert you via SMS and

- Needs only GSM network to operate
- Secured solution, only users identified in the PLC can interact
- > Expandable version: 26 I/Os up to 46 I/Os



No need to perform complicated integration between the PLC and a modem/gateway

2G 3G

em4. soft



em4 local

- Includes highly accurate 4-20 mA analog inputs for industrial sensors



Easily swap from one version to another version (remote and alert), enabling the upgrade of the equipment

em4 toolbox

Ether net

em4, soft

* The 3G and Ethernet versions will be available in 2016.





and datalogs

via email or FTP

Data report via SMS







Remote directory

Monitoring and

communication



The em4 for stand alone use or local area

The most compact and powerful of its category

- > Expandable version: 26 I/Os up to 46 I/Os





PLC with local

functions only



Modbus TCP/IP client and server





Modbus RS485



SELECT YOUR CONTROLLER

8

Our products are specifically suited for integration in a wide range of applications.



- Highly visible blue LCD with 4 lines of 18 characters and configurable backlighting
- Allow the use of the entire library of specific function blocks of the software workshop
- >Extended temperature range (-20 °C to +70 °C)
- Analog inputs 0-10 V---, Potentiometer, NTC, LDR (0-20 mA/Pt100 with converters)



- Save time designing your application and remote functions using the most intuitive graphical function block language on the market
- Accurately measure your high end industrial sensors with the embedded configurable analog inputs (including 4-20 mA)
- > Easily integrate one of our three high tech designs in your machine
- Adapt your application during its lifecycle thanks to the enhanced controlling performances



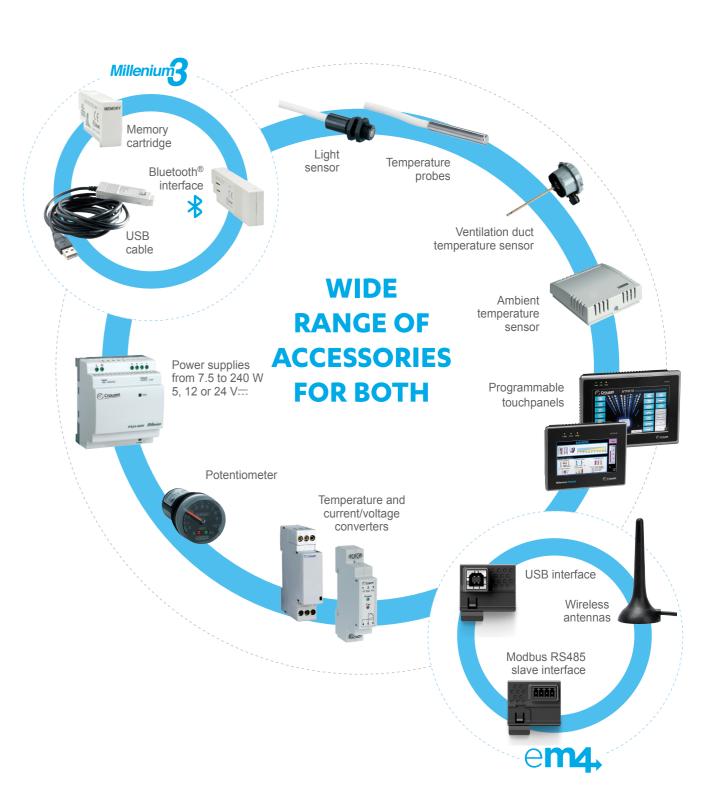


	Millenium 3 range	em4 range				
Davis Comple	12 V, 24 V	24 V 				
Power Supply	24 V \sim , 100 \rightarrow 240 V \sim					
Highly Visible	Blue (Smart) or Green (Essential)	Black and white / white and black				
НМІ	4 rows of	18 characters				
Versions	Compact versions: 12 and 20 I/Os Expandable versions: 10 and 26 I/Os up to 50 I/Os	Expandable version: 26 I/Os up to 46 I/Os				
Inputs on	Digital, High speed 6kHZ	Digital, High speed 60kHz				
the base	Analog 0-10V 5%, Potentiometer, NTC, LDR	Analog 0-10 V, 4-20 mA 1%, Potentiometer, NTC, LDR				
Outputs	Relays 8 A or 5 A	Relays 8 A or 6 A				
on the base	Static Digital or PWM	Static Digital or PWM				
	Digital	Digital				
Inputs on	Analog 0-10V 2%	Analog 0-10 V 1%				
expansions	4-20 mA 1%	4-20 mA 1%				
	PT100 1,5°C					
	Relay 8 A or 5 A	Relay 8 A or 6 A				
Outputs on	0-10V 5%	0-10 V 1%				
expansions	Static Digital or PWM	4-20 mA 1%				
		Static Digital or PWM				
	USB cable	USB interface				
Programming interface		Ethernet port				
		Remote download				
Ethernet	Ethernet Modbus TCP/IP (server)	Ethernet version: on base (Modbus TCP/IP server & client)				
/Com	Modbus RS485 (slave) on expansion	Wireless 2G and 3G versions				
Interface	USB, Bluetooth, memory, RS232	USB, Modbus RS485 (slave)				
D	FBD/SFC or LD	FBD/SFC				
Programming language	400 Function Blocks	1000 Function Blocks				
	200 Ladder lines					
Temperature	-20 °C +55 °C (Essential range)	-20 °C +60 °C				
range	-20 °C +70 °C (Smart range)					
Real time clock backup	10 years					

COMPLETE YOUR EXPERIENCE!

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Sensors, power supplies, converters, remote screens and communication accessories offer solutions to control your automation systems with the greatest ease of use.



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MOST INTUITIVE PROGRAMMING SOFTWARE ON THE MARKET

Simple

- Quick, simple and intuitive programming which does not require specialist knowledge
- > Self-teaching made easier thanks to a userfriendly online help guide and programming examples
- A simulation mode that consistently represents controller operation

Powerful

- A complete range of more than 100 function blocks
- › All basic functions: counting, timing, comparison, display, logic, gain, sin/cos, etc. are also available
- A wide range of dedicated functions: pump rotation, PID regulation, movement, pressure, level, water ratio, solar tracking, and flow

User-friendly and ergonomic

- » Software available in 5 languages: English, French, Italian, German and Spanish
- Function block programming is fun and very visual
- > Programming langages:
- FBD (Function Bloc Diagram)
- SFC (Sequential Function Chart/Grafcet)
- LD (Ladder Diagram) only on M3 soft

User-definable and effective

- > Possibility of creating and saving custom macros allowing the user to simplify programs
- Possibility of locking macros with a password for greater security

Download your software:







Download em4 soft

M3 SOFT

M3 Soft is the easiest programming software to use on the market. It is also incredibly powerful and user-friendly. Thanks to the most comprehensive library of application-specific function blocks in the industry, it allows you to customize your applications.

M3 soft PWM Function blocks

em4, soft

Sunset / Sunrise

sunset time

Calculate the sunrise and

em4 soft integrates all the remote management features in a single tool. Based on our strong experience in Millenium programming software development, em4 soft is the new easy-to-use programming tool dedicated to em4.

Function blocks



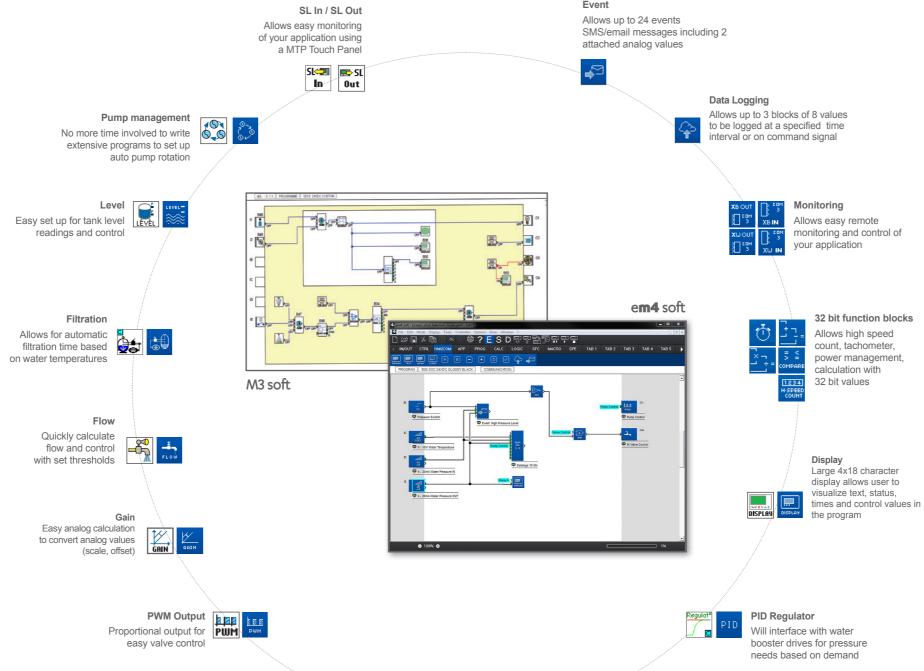


> Simply log in, scan the QR code on the product, and instantly begin monitoring and









Time Prog

calendar

Easily schedule time

events based on

With em4 remote, your equipment gets the simplest access to the Internet of Things

- The em4 web provides you with a powerful device management web-based platform.
- There is no need to configure the communication: log on, identify your em4 remote and instantly get connected!
- It allows you to easily manage your em4 fleet on demand:
- manage your access rights, as well as your customers
- download your application program or
- monitor and control your devices
- localize them on a map
- display your data history
- receive event notifications by email and SMS

Last but not least, it implements the latest security systems and protocols.

Map localization



Your em4 fleet available anywhere, anytime

The em4 simply enters your smartphone

- Mobile complement to the em4 web, the em4 app is the ultimate way to control and monitor your em4 from your smartphone.
- > It uses a fully secured and optimized infrastructure to ensure total protection of your
- controlling your device.

MAKE UP YOUR OWN SOLUTION

MILLENIUM 3 RANGE

							,	Availabil	ity/Compatik	oility
	Type		Part number	Supply	Inputs	Outputs	12 V	24 V	Solid State Output 0.5 A/PWM	Essential version **
3 Smart kits		Kit 12 Smart*	88 974 080	24 V	8 (4 configurable as analog)	4 relays 8 A				
Samuel Sa		Kit 12 Smart*	88 974 081	$100 \rightarrow 240 \; V \sim$	8	4 relays 8 A				
-		Kit 20 Smart*	88 974 082	24 V	12 (6 configurable as analog)	8 relays 8 A				
		Kit 20 Smart*	88 974 083	$100 \rightarrow 240 \text{ V} \sim$	12	8 relays 8 A				
		Kit 26 Smart*	88 974 084	24 V 	16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A				
		Kit 26 Smart*	88 974 085	$100 \rightarrow 240 \; \text{V}{\sim}$	16	8 relays 8 A and 2 relays 5 A				
pact versio	ns									
		CD12 Smart*	88 974 041	24 V	8 (4 configurable as analog)	4 relays 8 A	V		V	✓
	NI MATE	CD12 Smart*	88 974 043	$100 \rightarrow 240 \; V \sim$	8	4 relays 8 A		~		
		CD20 Smart*	88 974 051	24 V===	12 (6 configurable as analog)	8 relays 8 A	V		V	V
With disp	olay	CD20 Smart*	88 974 053	$100 \rightarrow 240 \; V \sim$	12	8 relays 8 A		~		
		CB12 Smart*	88 974 021	24 V===	8 (4 configurable as analog)	4 relays 8 A	V			V
	man Maked over on	CB12 Smart*	88 974 023	$100 \rightarrow 240 \text{ V} \sim$	8	4 relays 8 A		V		
<u> </u>		CB20 Smart*	88 974 031	24 V	12 (6 configurable as analog)	8 relays 8 A				V
Without dis	splay	CB20 Smart*	88 974 033	$100 \rightarrow 240 \; \text{V} \sim$	12	8 relays 8 A		~		
andable ver	sions									
		XD10 Smart*	88 974 141	24 V===	6 (4 configurable as analog)	4 relays 8 A	V		V	V
20 T	Richard S (Add)	XD10 Smart*	88 974 143	$100 \rightarrow 240 \; \text{V} \sim$	6	4 relays 8 A		~		
	0.0474	XD26 Smart*	88 974 161	24 V 	16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A	V		V	V
With disp	olay	XD26 Smart*	88 974 163	100 → 240 V ~	16	8 relays 8 A and 2 relays 5 A		~		
		XB10 Smart*	88 974 131	24 V===	6 (4 configurable as analog)	4 relays 8 A	V		V	V
Market Section and	Marie States	XB10 Smart*	88 974 133	100 → 240 V~	6	4 relays 8 A		~		
<u></u>		XB26 Smart*	88 974 151		16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A	V		V	V
Without dis	splav	XB26 Smart*		100 → 240 V~	16	8 relays 8 A and 2 relays 5 A	•	~	•	•
	e Terminal B			100 1210 0		o rolayo or tana 2 rolayo or t				
-		CD12 RBT	88 974 441	24 V—	8 (4 configurable as analog)	4 relays 8 A				
Ī)		Smart* XD26 RBT								
		Smart*	88 974 561	24 V	16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A				
lwich exten	nsions									
i.		XN05 Modbus TCP/IP	88 970 270	24 V 						
Co	mmunication	XN06 Modbus RS485	88 972 250	24 V 						~
m.		XN07 Master RS485	88 974 250	24 V						
	rital	XE10	88 970 321	24 V 	6	4 relays 5 A				~
Dig	gital	XE10	88 970 323	$100 \rightarrow 240 \; \text{V} \sim$	6	4 relays 5 A		V		V
nination Ext	tensions									
		XR06	88 970 211	24 V	4	2 relays 8 A	V			~
******		XR06	88 970 213	$100 \rightarrow 240 \; V \sim$	4	2 relays 8 A		V		~
		XR10	88 970 221	24 V	6	4 relays 8 A	/			~
2 555	The same of the sa	XR10	88 970 223	100 → 240 V ~	6	4 relays 8 A		~		V
		XR14	88 970 231	24 V 	8	4 relays 8 A and 2 relays 5 A	V			V
Digital	I	XR14	88 970 233	100 → 240 V ~	8	4 relays 8 A and 2 relays 5 A		~		~
1111		XA03 3xPt100	88 970 800		3 analog (Pt100)					
	Analog	XA04 2AI/2AO	88 970 241	24 V	2 analog 0-10 V/0-20 mA (1 Pt100)	2 analog 0-10V/PWM				V
board and	resin board	versions			(11111)					
*********	***************************************	NB12	88 970 001	24 V	8 (4 configurable as analog)	4 relays 8 A	V			
20		NB12		100 → 240 V~	8	4 relays 8 A				
	And the last of th	NB20	88 970 011		12 (6 configurable as analog)	8 relays 8 A				
Dava b	ard	NB20			12 (6 configurable as analog)	-				
Bare boa	aru			100 → 240 V~		8 relays 8 A				
		NBR12	88 973 001		8 (4 configurable as analog)	4 relays 8 A				
	-	NBR26	88 973 061		16 (6 configurable as analog)	10 relays 8 A	~		✓	
		NBR32	88 973 211		20 (6 configurable as analog)	12 relays 8 A	~			
Resin be	oard	NBR40	88 973 231	24 V	24 (6 configurable as analog)	16 relays 8 A	/			

No sili boald No in the configuration of

MILLENIUM 3 ACCESSORIES

Power supplies and DC/DC converters in modular casings

	Part number	Input Voltage	Output voltage	Nominal power	Output current
	88 950 303	100 → 240 V∿	24 V 	7.5 W	0.3 A
	88 950 304	$100 \rightarrow 240 \text{ V} \sim$	24 V	15 W	0.6 A
àà àà	88 950 307	100 → 240 V~	24 V	30 W	1.2 A
Total	88 950 302	$100 \rightarrow 240 \text{ V} \sim$	24 V	60 W	2.5 A
	88 950 305	100 → 240 V∿	5 V 	20 W	4 A
	88 950 306	$100 \rightarrow 240 \text{V} \sim$	12 V	24 W	2 A
	88 950 320	9,2 → 18 V~	12 V	10 W	0.8 A
	88 950 321	9,2 → 36 V~	24 V	$6 \rightarrow 10 \text{ W}$	0.4 A

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Connection accessories, tools and programming software

	Part number	Description
-3	88 970 111	M3 Soft: Millenium 3 programming software (CD-ROM)
Ō'a	88 970 108	Memory cartridge for transfer and saving of programs
Ō	88 970 102	3 m serial link cable: PC DB9 F \rightarrow Millenium 3
Element	88 974 104	Millenium 3 \rightarrow Bluetooth [®] interface (class A 10 m)
	88 970 109	3 m USB link cable: PC \rightarrow Millenium 3
	88 970 110	Bluetooth® adaptor → USB (class A 10 m)
	88 970 123	1.80 m serial link cable: DB9 M/DB9 F
6	88 970 510	0.5 m serial link cable: Millenium 3 \rightarrow DB9 M
	88 974 106	Ready to use Millenium 3 Smart democase including: - a CD12 Smart, a CTN probe, a LDR probe, an I/O simulator - a 3 m USB link cable: PC → Millenium 3, a M3 Soft CD - a power supply 110-230 V

Millenium 3 Virtual Display					
Designation of the second of t	Android smartphone and tablet as well as Windows XP/7 PC application				
Man/Machine interface					
	Plug & Play remote LCD displays/keypads				
022220	Remote LED display - Input 0-10 V				
Temperature probes and light sensors	Temperature probes and light sensors				
	NTC Temperature probes				
	LDR Light sensors				
	0-10 V Temperature sensors				
	Temperature probes Pt100 & Thermocouple				
Temperature and signal converters					
900	Thermocouple Pt100/Pt1000 → 0-10 V				
	PWM to 0-10 V/4-20 mA to 0-10 V				
Other accessories and kits					
	Standard Smart and Essential product kits	回機能設制回			



Check out the Millenium 3 datasheets!

^{*} Millenium 3 Smart: backlit blue LCD display. Extended operating temperature range and function block library

**Millenium 3 Essential: Logic Controller with green screen and industrial temperature range

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em4, RANGE

		Co	nnect	tion ty	/pe					
Produ	ct description	W	2G	3G	Ether	Glossy black	Details			
Bases							Common characteristics:			
** ********	em4 remote 2G*		~			88 981 153				
	em4 remote 3G*			~		-				
***************	em4 remote Ethernet*				~	-	,			
	em4 alert 2G		~			88 981 113				
	em4 alert 3G			~		88 981 123**	 Outputs: 10 digital outputs (include 2 relays 6 A and 6 relays 8 A) 	ling 2 static 0.5 A PWM,		
	em4 local	~				88 981 103				
	em4 local Ethernet				~	88 981 133**				
Starter kits							An e m4 sta	rter kit includes:		
	Starter kit em4 remote 2G*		~			88 981 156	- The em4 remote nano-PLC	- The USB interface - The USB programming cable		
startor bit	Starter kit em4 remote 3G*			~		-	- The standard 3 m antenna			
em4.	Starter kit em4 remote Ethernet*				~	-	- The em4 remote nano-PLC	- The Ethernet cable	- The	
	Starter kit em4 alert 2G		~			88 981 116	- The em4 alert nano-PLC		em4 soft (USB key)	
	Starter kit em4 alert 3G			~		88 981 126**	- The standard 3 m antenna	- The USB interface - The USB programming cable		
	Starter kit em4 local	~				88 981 106	The sould be all ages DLO			
	Starter kit em4 local Ethernet				~	88 981 136**	- The em4 local nano-PLC	- The Ethernet cable		
Evaluation cases							The ready-to-use e	valuation case includes:		
	Evaluation case em4 remote 2G*		~			88 980 185				
	Evaluation case em4 remote 3G*			~		88 980 186**				
em4.	Evaluation case em4 remote Ethernet*				~	-	- The starter kit (description above) - The power supply 110-230 Va with			
G CONTRACT	Evaluation case em4 alert 2G		~			88 980 181	- The simulator PCB for the 16 Inpu and terminals to connect your sen	its with switches, potentiometers		
	Evaluation case em4 alert 3G			~		88 980 182**	The simulator BCB for the 10 Outputs with 11 LEDs and to			
	Evaluation case em4 local	~				88 980 180**				
	Evaluation case em4 local Ethernet				~	-				

* em4 remote 2G, 3G and Ethernet include the first year of subscription to em4 remote access (em4 web & em4 app), with a SIM card for the 2G and 3G versions.
**The 3G and Ethernet versions will be available in 2016.

Product description	Inputs	Outputs	Glossy black
Expansions			
em4 digital expansion E10R	6 digital inputs (configurable as analog 0-10 V or potentiometer)	4 digital outputs (2 relays 6 A and 2 relays 8 A)	88 982 113
em4 analog expansion E10A	6 digital inputs (configurable as analog 0-10 V / 4-20 mA)	4 outputs (2 static 0.5 A PWM and 2 analog 0-10 V)	88 982 213

	Product description	Part number
Interfaces	em4 USB interface black	88 980 110
Inter	em4 interface RS485 Modbus slave black	88 980 120
	em4 Set of I/O simulator for bases	88 980 150
တ္သ	Antenna 3 m standard	88 980 160
sorie	Antenna 3 m int/ext flat	88 980 161
Accessories	Antenna 10 m ext	88 980 162
AC	USB cable 3 m B type	88 980 170
	em4 soft (USB key)	88 980 140
ies	Modular power supply 24 V 7.5 W	88 950 303
lddn	Modular power supply 24 V 15 W	88 950 304
ower supplies	Modular power supply 24 V=== 30 W	88 950 307
Pov	Modular power supply 24 V 60 W	88 950 302

Description	Key features	Part number
Programmable touch panels		
MTP6/50 user kit	- 4.3" color touch panel - Modbus RS232/RS485 serial port - USB port	88 970 492
MTP8/50 user kit	- 4.3" color touch panel - Modbus RS232/RS485 serial port - Ethernet TCP/IP port	88 970 494
Cable em4-MTP6/50 & MTP8/50	Need em4 interface RS485 Modbus (88 980 120/121)	88 980 171
MTP8/70 user kit	- 7" color touch panel - 2x Modbus RS232/RS485 serial port - USB port, Ethernet TCP/IP port	88 970 496
Cable em4-MTP8/70	Need em4 interface RS485 Modbus (88 980 120/121)	88 980 172
MTP6/50 - MTP8/70 programming kit (USB)	- USB - Mini USB cable - EB Software (CD)	88 970 501
MTP8/50 - MTP8/70 programming kit (Ethernet)	- Ethernet crossover cable - EB Software (CD)	88 970 502

PERFECTLY MATCH ALL OF YOUR REQUIREMENTS

15

Crouzet Automation has identified six major applications for which Millenium 3 and em4 are particularly suitable:



ACCESS CONTROL

Control opening and closing of doors. Allow or restrict access with automatic detection, on a timer, or on certain days/time.



TEMPERATURES

Management of various parameters such as heating, cooling, fluid temperatures, operation, calendar-based function, frost protection mode, alarm management, etc.



WATER TREATMENT

Managing circulation pumps, monitoring levels, temperature and conductivity of the water. Irrigation control based on temperature, humidity, and day/night cycle



SMALL INDUSTRIAL MACHINES

Controlling the motor that unrolls the packing film. Controls cutting of the film after heat sealing and monitors the duration of the motor cycles. Controlling heat sealing times on blister packs, packaging bags, etc.



SOLAR WATER HEATING

Automation of operation and heating regulation, remote management of the installation.



LIGHTING

Managing flashing on illuminated signs

AMERICAS

EUROPE / MIDDLE EAST / AFRICA

ASIA / PACIFIC

CANADA

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