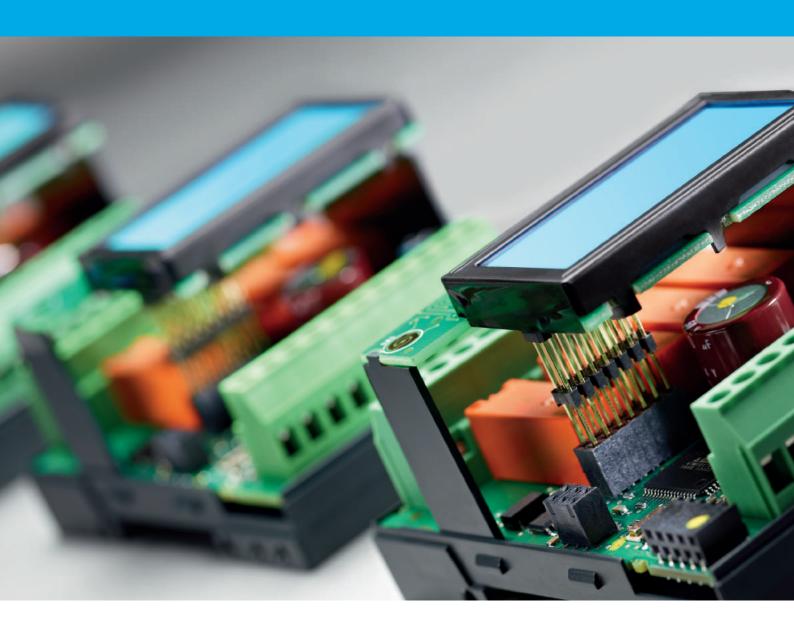
CROUZET AUTOMATION SELECTION GUIDE







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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



& Defense





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...



STANDARD COMPONENTS

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.

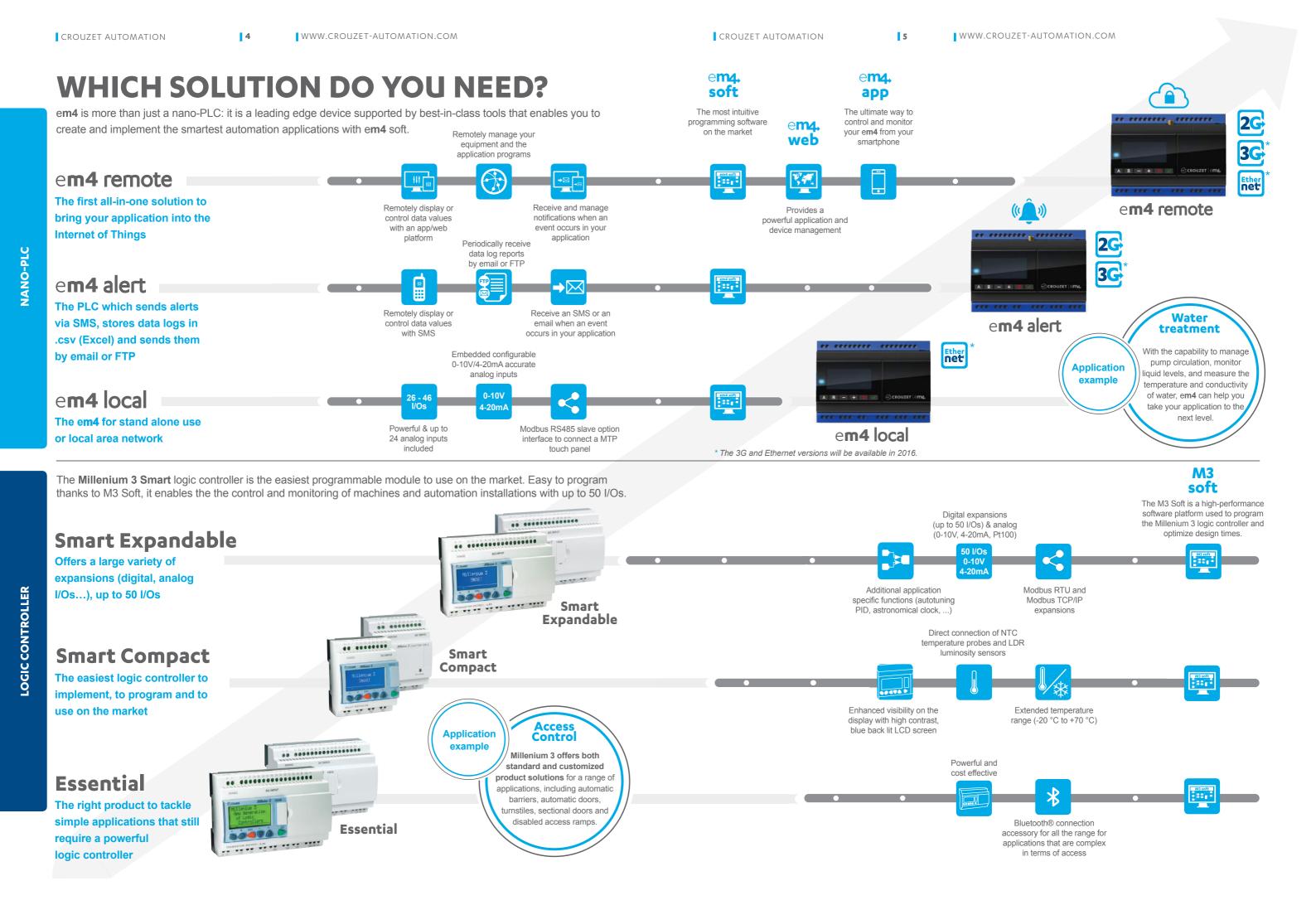


ADAPTED PRODUCTS

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



Modbus RTU and

Modbus TCP/IP

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

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



Device





Advanced remote services for your customers

Advanced monitoring and



Automatic clock



Customizable web interface





A B - + CROUZET CM

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

em4 toolbox

2G 3G

em4. soft



em4 local

The em4 for stand alone use or local area

- The most compact and powerful of its category
- Includes highly accurate 4-20 mA analog inputs for industrial sensors
- > Expandable version: 26 I/Os up to 46 I/Os



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







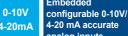
Remote directory

Monitoring and control functions

communication



PLC with local functions only





Modbus TCP/IP client and server





Modbus RS485





SELECT YOUR CONTROLLER

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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





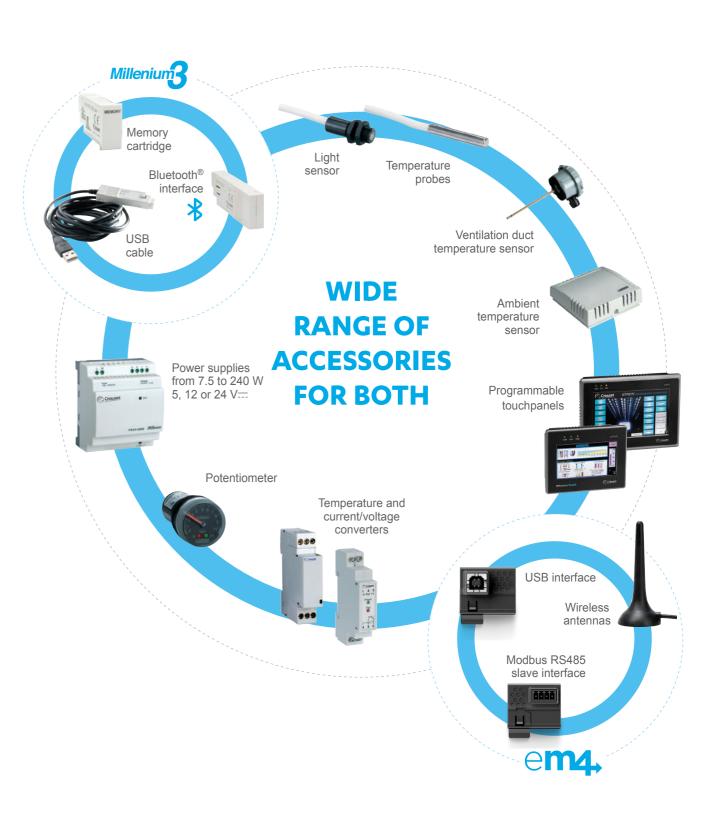


	Millenium 3 range	em4 range
	12 V, 24 V	24 V
Power Supply	24 V \sim , 100 \rightarrow 240 V \sim	
Highly Visible	Blue (Smart) or Green (Essential)	Black and white / white and black
HMI	4 rows of	18 characters
Versions	Compact versions: 12 and 20 I/Os Expandable versions: 10 and 26 I/Os up to 50 I/Os	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)
December 1	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 ye	ears

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

flow and control

Easy analog calculation to convert analog values

(scale, offset)

easy valve control

with set thresholds

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

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





monitoring and control of your application

Display Large 4x18 character display allows user to visualize text status the program

PID Regulator

Will interface with water

booster drives for pressure

needs based on demand

times and control values in

> It uses a fully secured and optimized infrastructure to ensure total protection of your

your em4 from your smartphone.

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.

communication: log on, identify your em4 remote and instantly get connected!

It allows you to easily manage your em4 fleet

- manage your access rights, as well as

- download your application program or

- monitor and control your devices

- receive event notifications by email

Last but not least, it implements the latest

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

- localize them on a map

display your data history

security systems and protocols.

Map localization

There is no need to configure the

on demand:

and SMS

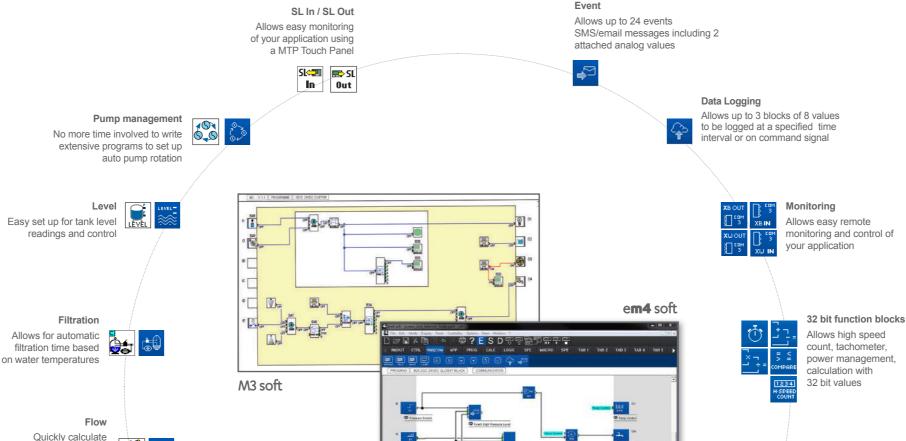
your customers

Simply log in, scan the QR code on the product, and instantly begin monitoring and controlling your device.









PWM Output Proportional output for PWM

Time Prog Easily schedule time events based on calendar

Sunset / Sunrise Calculate the sunrise and sunset time

MAKE UP YOUR OWN SOLUTION

MILLENIUM 3 RANGE

	IUM.					A	Availabil	ity/Compatib	oility
Туре		Part number	Supply	Inputs	Outputs	12 V	24 V	Solid State Output 0.5 A/PWM	Essential version **
M3 Smart kits	Kit 12 Smart*	88 974 080	24 V 	8 (4 configurable as analog)	4 relays 8 A				
-0	Kit 12 Smart*	88 974 081	$100 \rightarrow 240 \; V \sim$	8	4 relays 8 A				
3	Kit 20 Smart*	88 974 082	24 V	12 (6 configurable as analog)	8 relays 8 A				
** ************************************	Kit 20 Smart*	88 974 083	$100 \rightarrow 240 \; V \sim$	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				
++ ++ +7 35 10 +4 17 3751	Kit 26 Smart*	88 974 085	$100 \rightarrow 240 \; V \sim$	16	8 relays 8 A and 2 relays 5 A				
Compact versions									
	CD12 Smart*	88 974 041	24 V 	8 (4 configurable as analog)	4 relays 8 A	/		✓	~
	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		✓	~
With display	CD20 Smart*	88 974 053	$100 \rightarrow 240 \; V \sim$	12	8 relays 8 A		~		
3 (amountain)	CB12 Smart*	88 974 021	24 V 	8 (4 configurable as analog)	4 relays 8 A	/			~
	CB12 Smart*	88 974 023	$100 \rightarrow 240 \; V \sim$	8	4 relays 8 A		~		
	CB20 Smart*	88 974 031	24 V 	12 (6 configurable as analog)	8 relays 8 A				~
Without display	CB20 Smart*	88 974 033	$100 \rightarrow 240 \; V \sim$	12	8 relays 8 A		~		
Expandable versions									
	XD10 Smart*	88 974 141	24 V	6 (4 configurable as analog)	4 relays 8 A	V		V	V
	XD10 Smart*	88 974 143	$100 \rightarrow 240 \; V \sim$	6	4 relays 8 A		~		
19 11 10 TO	XD26 Smart*	88 974 161	24 V	16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A	V		✓	V
With display	XD26 Smart*	88 974 163	$100 \rightarrow 240 \ V \sim$	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
1===	XB10 Smart*	88 974 133	$100 \rightarrow 240 \text{ V} \sim$	6	4 relays 8 A		~		
A Committee of the Comm	XB26 Smart*	88 974 151	24 V 	16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A	V		V	V
Without display	XB26 Smart*	88 974 153	100 → 240 V~	16	8 relays 8 A and 2 relays 5 A		~		
With Removable Termina	al Blocks								
	CD12 RBT	88 974 441	24 V	8 (4 configurable as analog)	4 relays 8 A				
	Smart* XD26 RBT			-					
	Smart*	88 974 561	24 V	16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A				
Sandwich extensions									
	XN05 Modbus TCP/IP	88 970 270	24 V						
Communication	N3403	88 972 250	24 V						~
	XN07 Master RS485	88 974 250	24 V						
Digital	XE10	88 970 321	24 V	6	4 relays 5 A				~
The state of the s	XE10	88 970 323	$100 \rightarrow 240 \; \text{V} \sim$	6	4 relays 5 A		~		~
Termination Extensions									
	XR06	88 970 211	24 V===	4	2 relays 8 A	/			~
	XR06	88 970 213	$100 \rightarrow 240 \; V \sim$	4	2 relays 8 A		~		~
	XR10	88 970 221	24 V 	6	4 relays 8 A	V			~
1	XR10	88 970 223	$100 \rightarrow 240 \; V \sim$	6	4 relays 8 A		V		V
	XR14	88 970 231	24 V===	8	4 relays 8 A and 2 relays 5 A	V			V
Digital	XR14	88 970 233	$100 \rightarrow 240 \; V \sim$	8	4 relays 8 A and 2 relays 5 A		~		V
Analog	XA03 3xPt100	88 970 800	24 V	3 analog (Pt100)					
Allalog	XA04 2AI/2AO	88 970 241	24 V	2 analog 0-10 V/0-20 mA (1 Pt100)	2 analog 0-10V/PWM				~
Bare board and resin bo	ard versions								
(Parameter of the later)	NB12	88 970 001	24 V	8 (4 configurable as analog)	4 relays 8 A	~			
To the same	NB12	88 970 003	100 → 240 V~	8	4 relays 8 A				
Name and Address of	NB20	88 970 011		12 (6 configurable as analog)	8 relays 8 A				
Bare board	NB20		100 → 240 V~	12	8 relays 8 A				
54.0 50414	NBR12	88 973 001		8 (4 configurable as analog)	4 relays 8 A	1		1	
	NBR26	88 973 061		16 (6 configurable as analog)	10 relays 8 A	./			
And the second s	NBR32	88 973 211				~			
Dooin hoose				20 (6 configurable as analog)	12 relays 8 A				
Resin board	NBR40	88 973 231	24 V	24 (6 configurable as analog)	16 relays 8 A				

MILLENIUM 3 ACCESSORIES

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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
25 .00	88 950 307	$100 \rightarrow 240 \text{ V} \sim$	24 V	30 W	1.2 A
*****	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	$6 \rightarrow 10 \; W$	0.4 A

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Connection accessories, tools and programming software

	Part number	Description
	88 970 111	M3 Soft: Millenium 3 programming software (CD-ROM)
0'2	88 970 108	Memory cartridge for transfer and saving of programs
-01	88 970 102	3 m serial link cable: PC DB9 F \rightarrow Millenium 3
	88 974 104	Millenium $3 \rightarrow Bluetooth^{\otimes}$ interface (class A 10 m)
	88 970 109	3 m USB link cable: PC \rightarrow Millenium 3
	88 970 110	$Bluetooth^{\otimes}$ adaptor \rightarrow USB (class A 10 m)
	88 970 123	1.80 m serial link cable: DB9 M/DB9 F
	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						
D CONTROL OF THE PARTY OF THE P	Android smartphone and tablet as well as Windows XP/7 PC application					
Man/Machine interface						
	TFT-LCD compact 4.3" and 7" resistive touch panels - MTP6/50, MTP8/50 & MTP8/70					
	Plug & Play remote LCD displays/keypads					
020240	Remote LED display - Input 0-10 V					
Temperature probes and light sensors						
	NTC Temperature probes					
	LDR Light sensors					
	0-10 V Temperature sensors					
	Temperature probes Pt100 & Thermocouple					
Temperature and signal converters						
***	Thermocouple Pt100/Pt1000 → 0-10 V					
	PWM to 0-10 V/4-20 mA to 0-10 V					
Other accessories and kits	accessories and kits					
		国际部署国				





Standard Smart and Essential product kits
Removable connectors
Potentiometer Ø 22 mm
Faceplates



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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		Co	nnec	tion ty	ре						
Product description		W	2G	3G	Ether	Glossy black	Details				
Bases							Common characteristics:				
agains ann	em4 remote 2G*		~			88 981 153					
	em4 remote 3G*			~		-					
ALE IN IN IN	em4 remote Ethernet*				~	-	- Supply: 24V				
177 HR H. AND ROCKER	em4 alert 2G		~			88 981 113	- Outputs: 10 digital outputs (including 2 static 0.5 A PWM.				
	em4 alert 3G			~		88 981 123**					
	em4 local	~				88 981 103					
	em4 local Ethernet				~	88 981 133**					
Starter kits							An em4 starter kit includes:				
	Starter kit em4 remote 2G*		~			88 981 156	- The em4 remote nano-PLC	- The USB interface - The USB programming cable			
em4.	Starter kit em4 remote 3G*			~		-	- The standard 3 m antenna				
	Starter kit em4 remote Ethernet*				V	-	- The em4 remote nano-PLC	- The Ethernet cable	- The		
	Starter kit em4 alert 2G		~			88 981 116	- The em4 alert nano-PLC		e m4 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	Ti 41 1 DIO	, , , , , , , , , , , , , , , , , , ,			
	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				
em_	Evaluation case em4 alert 2G		V			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 PCB for the 10 Output to connect the 2 static outputs to a	outs with 11 LEDs and terminals			
	Evaluation case em4 local	V				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
Interf	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
A	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
Power 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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