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CROUZET AUTOMATION SELECTION GUIDE







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 needs.

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



ADAPTATION WHEEL

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



1 STANDARD COMPONENTS

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

2 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.



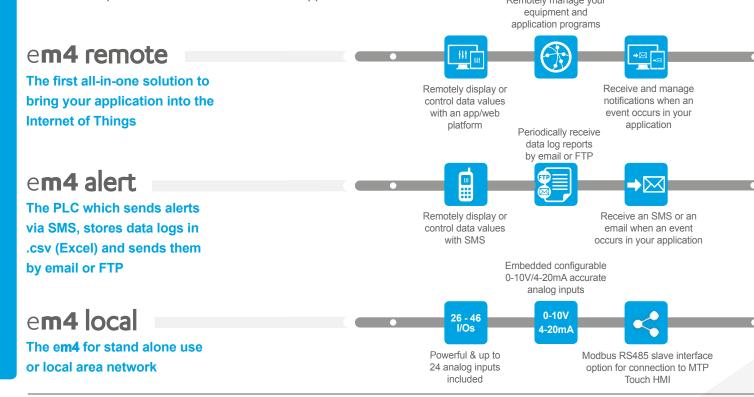
Defined jointly with our technical sales teams, these adapted products offer the exact performance and functions you need for your application.



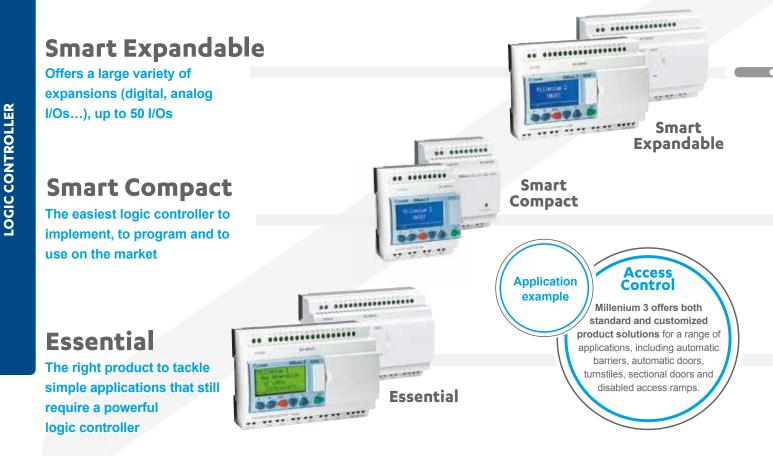
All our design and industrialization expertise in automation systems at your service, to design and create specific products dedicated to your application.

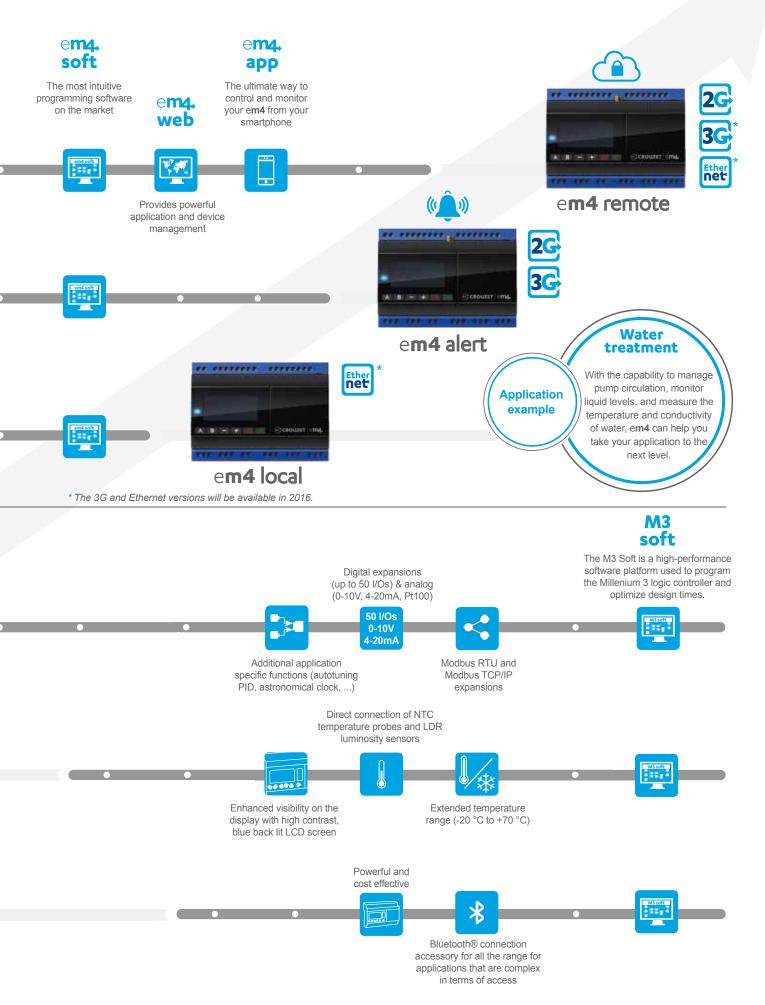
WHICH SOLUTION DO YOU NEED?

em4 is more than just a nano-PLC: it is a leading edge device supported by best-in-class tools that enables you to create and implement the smartest automation applications with em4 soft.



The **Millenium 3 Smart** logic controller is the easiest programmable module to use on the market. Easy to program thanks to M3 Soft, it enables the control and monitoring of machines and automation installations with up to 50 I/Os.





WHICH SOLUTION DO YOU NEED?

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





BC

Ether Net

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 localisation

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



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

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em4 toolbox

em4. soft

em4. web em4, app



em4 alert

Nano-PLC that can alert you via SMS and email

- > Needs only GSM network to operate (SMS)
- > Secured solution, only users identified in the PLC can interact
- > Expandable from: 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

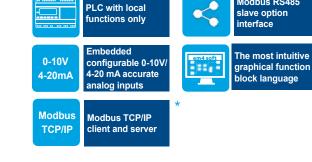
em4, soft



em4 local

The em4 for stand alone use or local area network

- > The most compact and powerful of its category
- > Includes highly accurate 4-20 mA analog inputs for industrial sensors
- > Expandable from: 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

em4, soft

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

100			E. Car
→⊠	Event management via SMS and email		Monitoring and control functions via SMS
	Data report via SMS and datalogs via email or FTP	em4. em4.	PLC to PLC SMS communication
FTP	Remote application program update	ۇر ە	Remote directory management

Machine /

Equipment

Device

maintenance

& management

Map localization

Automatic clock

synchronization

Ľ

A A fleet management

Secured platform

and connections

Advanced event

Advanced data

monitoring and

control functions

Advanced remote

services for your customers

Customizable

web interface

Modbus RS485

0

history

Advanced

management

SELECT YOUR CONTROLLER

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 in 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)

Glossy black

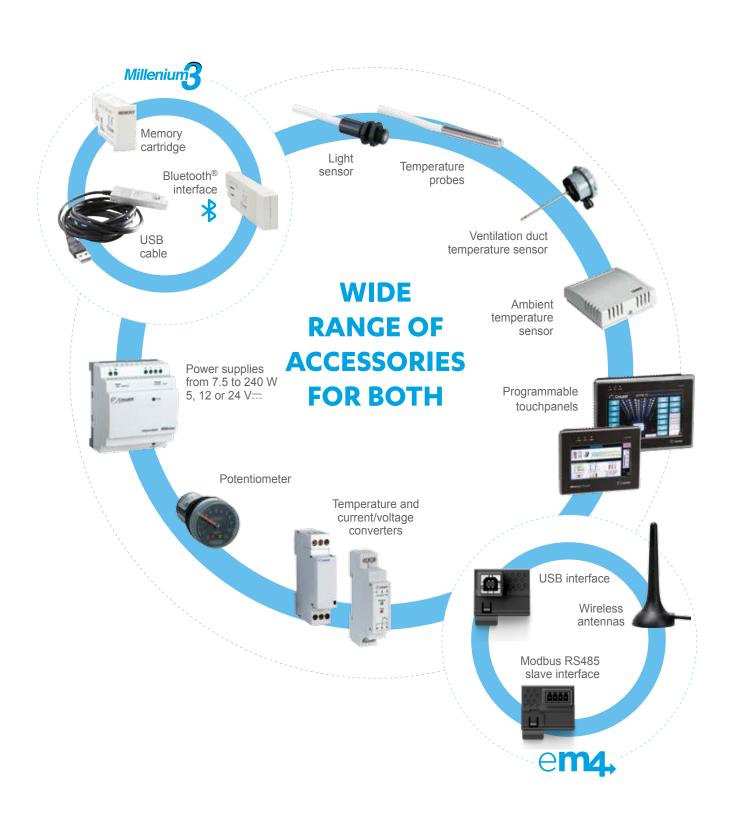
- > Easily integrate one of our three high tech designs in your machine
- Adapt your application during its lifecycle thanks to the enhanced controlling performances



	Millenium 3 range	e m4 range
Davies Oversky	12 V, 24 V	24 V
Power Supply	24 V \sim , 100 \rightarrow 240 V \sim	
Highly Visible	Blue (Smart) or Green (Essential)	Black on white / white on 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)
-	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 ує	ears

COMPLETE YOUR EXPERIENCE!

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



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:



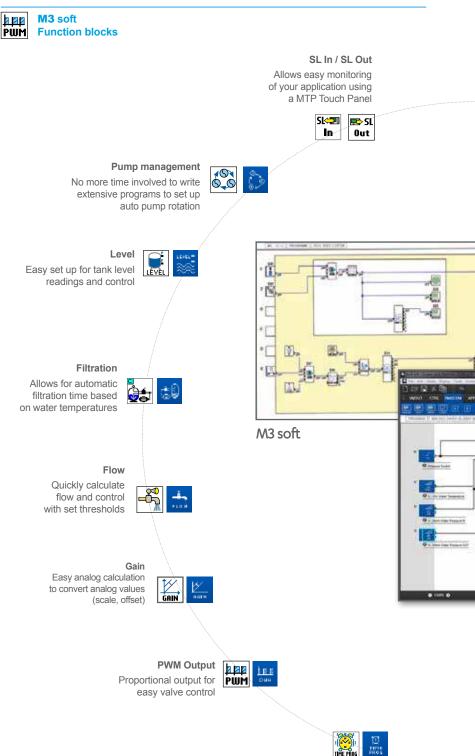


Download M3 soft



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 customise your applications.

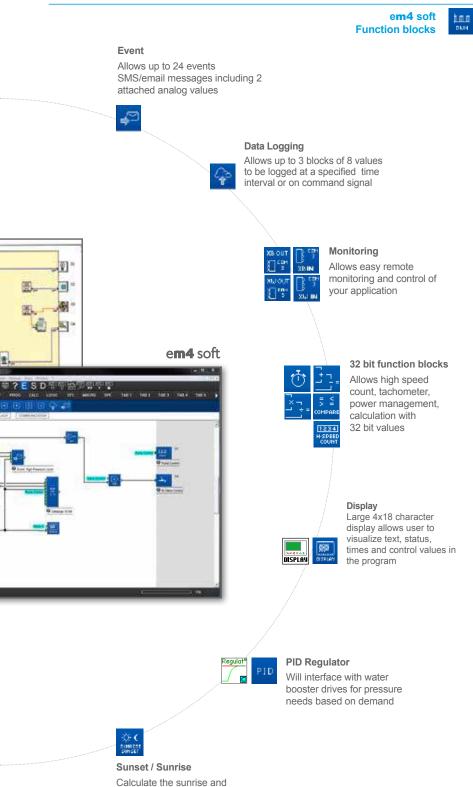


Time Prog Easily schedule time events based on calendar

e**m4, soft**

4

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.



sunset time

em4, WEB

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 firmware
- monitor and control your devices
- locate 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 localisation



Your em4 fleet available anywhere, anytime

e**m4, APP**

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



MAKE UP YOUR OWN SOLUTION MILLENIUM 3 RANGE

							Availability/Compatibility			
	Туре		Part number	Supply	Inputs	Outputs	12 V 	24 V	Solid State Output 0.5 A/PWM	Essentia version
13 Smart kits		Kit 12 Smart*	88 974 080	24 V 	8 (4 configurable as analog)	4 relays 8 A				
		Kit 12 Smart*	88 974 081	$100 \rightarrow 240 \; V \sim$	8	4 relays 8 A				
0		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				
and the state states		Kit 26 Smart*		$100 ightarrow 240 \ V \sim$	16	8 relays 8 A and 2 relays 5 A				
ompact version	ons									
	- Announcement	CD12 Smart*	88 974 041	24 V	8 (4 configurable as analog)	4 relays 8 A	~		~	~
-	and the second se	CD12 Smart*		$100 \rightarrow 240 V \sim$	8	4 relays 8 A		~		
		CD20 Smart*	88 974 051		12 (6 configurable as analog)	8 relays 8 A	~		~	
With die	ith display	CD20 Smart*		$100 \rightarrow 240 V \sim$	12 (0 configurable as analog)	8 relays 8 A		~		
with dis	spiay	CB12 Smart*	88 974 021		8 (4 configurable as analog)	4 relays 8 A	~			
	H. Sector			$24 \text{ v}_{}$ $100 \rightarrow 240 \text{ V}_{\sim}$			•	~		•
-		CB12 Smart*			8	4 relays 8 A		~		
		CB20 Smart*	88 974 031		12 (6 configurable as analog)	8 relays 8 A				~
Without d		CB20 Smart*	88 974 033	$100 ightarrow 240 V \sim$	12	8 relays 8 A		~		
xpandable ve	ersions	VDICO		04114						
		XD10 Smart*	88 974 141		6 (4 configurable as analog)	4 relays 8 A	~		 ✓ 	~
1000	1000	XD10 Smart*		$100 \rightarrow 240 \ V \sim$	6	4 relays 8 A		~		
10 AT 10 M	of some state in some state.	XD26 Smart*	88 974 161		16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A	~		 ✓ 	~
With dis	splay	XD26 Smart*	88 974 163	$100 \rightarrow 240 \; V \sim$	16	8 relays 8 A and 2 relays 5 A		~		
	AL PROPERTY OF A	XB10 Smart*	88 974 131	24 V	6 (4 configurable as analog)	4 relays 8 A	~		 ✓ 	~
		XB10 Smart*	88 974 133	$100 \rightarrow 240 \; V \sim$	6	4 relays 8 A		~		
		XB26 Smart*	88 974 151	24 V	16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A	~		 ✓ 	~
Without d	lisplay	XB26 Smart*	88 974 153	$100 \rightarrow 240 \; V \sim$	16	8 relays 8 A and 2 relays 5 A		~		
Vith Removab	le Terminal B	Blocks								
		CD12 RBT	88 974 441	24 V	8 (4 configurable as analog)	4 relays 8 A				
		Smart* XD26 RBT								
And a later of the		Smart*	88 974 561	24 V	16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A				
andwich exte	ensions									
-5		XN05 Modbus TCP/IP	88 970 270	24 V						~
]. с	ommunication	XN06 Modbus RS485	88 972 250	24 V						~
100		XN07 Master RS485	88 974 250	24 V						
	icital	XE10	88 970 321	24 V	6	4 relays 5 A				~
	ligital	XE10	88 970 323	$100 \rightarrow 240 \; V \sim$	6	4 relays 5 A		•		~
ermination Ex	ctensions									
		XR06	88 970 211	24 V	4	2 relays 8 A	~			~
. inter	-	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	~			~
1	1_	XR10	88 970 223	$100 \rightarrow 240 \; V \sim$	6	4 relays 8 A		~		~
		XR14	88 970 231	24 V	8	4 relays 8 A and 2 relays 5 A	~			~
Digita	al	XR14	88 970 233	$100 ightarrow 240 \ V \sim$	8	4 relays 8 A and 2 relays 5 A		~		~
-	A	XA03 3xPt100	88 970 800	24 V	3 analog (Pt100)					
1	Analog	XA04 2AI/2AO	88 970 241	24 V 	2 analog 0-10 V/0-20 mA (1 Pt100)	2 analog 0-10V/PWM				~
are board and	d resin board	l versions								
Contraction		NB12	88 970 001	24 V	8 (4 configurable as analog)	4 relays 8 A	~			
200	man	NB12	88 970 003	$100 \rightarrow 240 \; V \sim$	8	4 relays 8 A				
	HILLER	NB20	88 970 011	24 V	12 (6 configurable as analog)	8 relays 8 A				
Bare bo	oard	NB20		$100 \rightarrow 240 \ V \sim$	12	8 relays 8 A				
		NBR12	88 973 001		8 (4 configurable as analog)	4 relays 8 A	~		~	
	100	NBR26	88 973 061				~		-	
COLUMN TWO IS	-				16 (6 configurable as analog)	10 relays 8 A	-			
		NBR32	88 973 211		20 (6 configurable as analog)	12 relays 8 A	~			
Resin I	board	NBR40	88 973 231	24 V	24 (6 configurable as analog)	16 relays 8 A	~			

* 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

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	$100 ightarrow 240 V \sim$	24 V	7.5 W	0.3 A
	88 950 304	$100 ightarrow 240 V \sim$	24 V	15 W	0.6 A
44 48	88 950 307	$100 ightarrow 240 V \sim$	24 V	30 W	1.2 A
- 100, 000	88 950 302	$100 ightarrow 240 V \sim$	24 V	60 W	2.5 A
	88 950 305	$100 ightarrow 240 V \sim$	5 V	20 W	4 A
-	88 950 306	$100 ightarrow 240 V \sim$	12 V	24 W	2 A
	88 950 320	9,2 \rightarrow 18 V \sim	12 V	10 W	0.8 A
	88 950 321	9,2 $ ightarrow$ 36 V \sim	24 V	$6 \to 10 \; \text{W}$	0.4 A

Connection accessories, tools and programming software

	Part number	Description
	88 970 111	M3 Soft: Millenium 3 programming software (CD-ROM)
03	88 970 108	Memory cartridge for transfer and saving of programs
FOT	88 970 102	3 m serial link cable: PC DB9 F \rightarrow Millenium 3
	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 \rightarrow USB (class A 10 m)
	88 970 123	1.80 m serial link cable: DB9 M/DB9 F
NG.	88 970 510	0.5 m serial link cable: Millenium 3 \rightarrow DB9 M
I. H.	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

	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
::	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 \rightarrow 0-10 V
	PWM to 0-10 V/4-20 mA to 0-10 V

Standard Smart and Essential product kits

Removable connectors Potentiometer Ø 22 mm

Faceplates

Other accessories and kits





Check out the Millenium 3 datasheets!

em4, RANGE

			Connection type							
Prod	uct description	W	2G	3G	Ether	Glossy black	C.	Details		
Bases							Common characteristics:			
41-10-110-110-001	em4 remote 2G*		~			88 981 153	3			
	em4 remote 3G*			~		-				
Constant Providence	em4 remote Ethernet*				~	-	- Supply: 24V			
Hereiter auf die seinen auf	em4 alert 2G		~			88 981 113				
	em4 alert 3G			~		88 981 123	 Outputs: 10 digital outputs (incluing 2 relays 6 A and 6 relays 8 A) 	iding 2 static 0.5 A PWM,		
	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	ble	
-> em4.	Starter kit em4 remote 3G*			~		-	- The standard 3 m antenna	- The USB programming cable		
	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	- The USB interface - The USB programming cable	e m4 soft (USB key)	
	Starter kit em4 alert 3G			~		88 981 126	- The standard 3 m antenna			
	Starter kit em4 local	~				88 981 106	- The e m4 local nano-PLC			
	Starter kit em4 local Ethernet				~	88 981 136**		- The Ethernet cable		
Evaluation cases							The ready-to-use e	evaluation 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 	th Europe and US adaptor		
	Evaluation case em4 alert 2G		~			88 980 181	 The simulator PCB for the 10 Outputs with 11 LEDs and terminal to connect the 2 static outputs to a device for evaluation 			
	Evaluation case em4 alert 3G			•		88 980 182				
	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	Description	Key features	Part number	
ses	em4 USB interface black	88 980 110	Programmable touch panels			
Interfaces	em4 interface RS485 Modbus slave black 88 980 120		MTP6/50 user kit*	- 4.3" color touch panel - Modbus RS232/RS485 serial port - USB port	88 970 492	
	em4 Set of I/O simulator for bases	88 980 150		- 4.3" color touch panel		
S	Antenna 3 m standard	88 980 160	MTP8/50 user kit*	 Modbus RS232/RS485 serial port Ethernet TCP/IP port 	88 970 494	
sori	Antenna 3 m int/ext flat 88 980 161			For use with em4 interface RS485 Modbus		
Accessories	Antenna 10 m ext	88 980 162	Cable em4-MTP6/50 & MTP8/50	interface (88 980 120)	88 980 171	
Ac	USB cable 3 m B type	88 980 170		- 7" color touch panel	88 970 496	
	em4 soft (USB key)	88 980 140	MTP8/70 user kit*	 - 2x Modbus RS232/RS485 serial port - USB port, Ethernet TCP/IP port 		
lies	Modular power supply 24 V 7.5 W	88 950 303	Cable e m4- MTP8/70	For use with em4 interface RS485 Modbus	88 980 172	
supplies	Modular power supply 24 V 15 W	88 950 304		(88 980 120)	00 500 172	
Power s	Modular power supply 24 V 30 W	88 950 307	MTP6/50 - MTP8/70 programming kit (USB)	- USB - Mini USB cable - EB Software (CD)	88 970 501	
Pov	Modular power supply 24 V 60 W	88 950 302	(000)			
			MTP8/50 - MTP8/70 programming kit (Ethernet)	- Ethernet crossover cable - EB Software (CD)	88 970 502	

* em4 cable not included in User Kit

PERFECTLY MATCH ALL OF YOUR REQUIREMENTS

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

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