imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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WWW.CROUZET-AUTOMATION.COM

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.



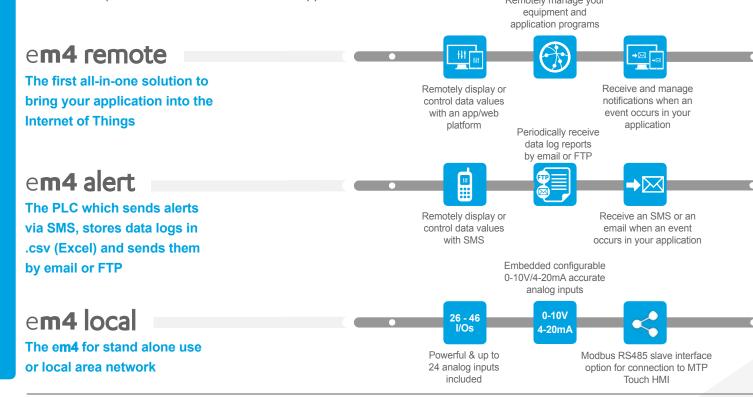
Defined jointly with our technical sales teams, these adapted products offer the exact performance and functions you need for your application.



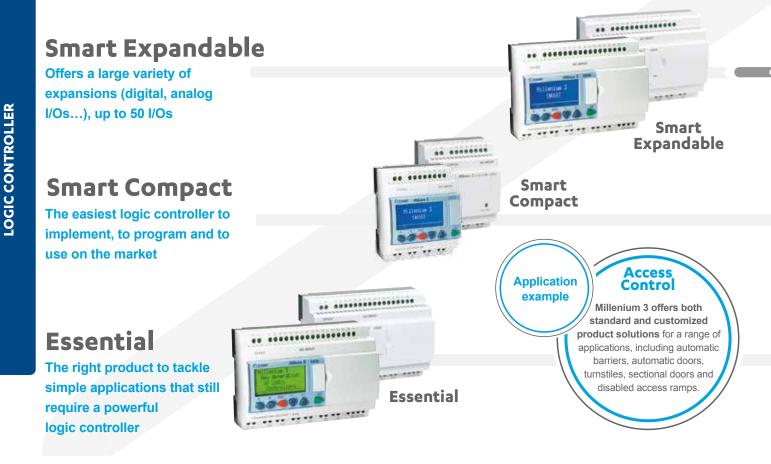
All our design and industrialization expertise in automation systems at your service, to design and create specific products dedicated to your application.

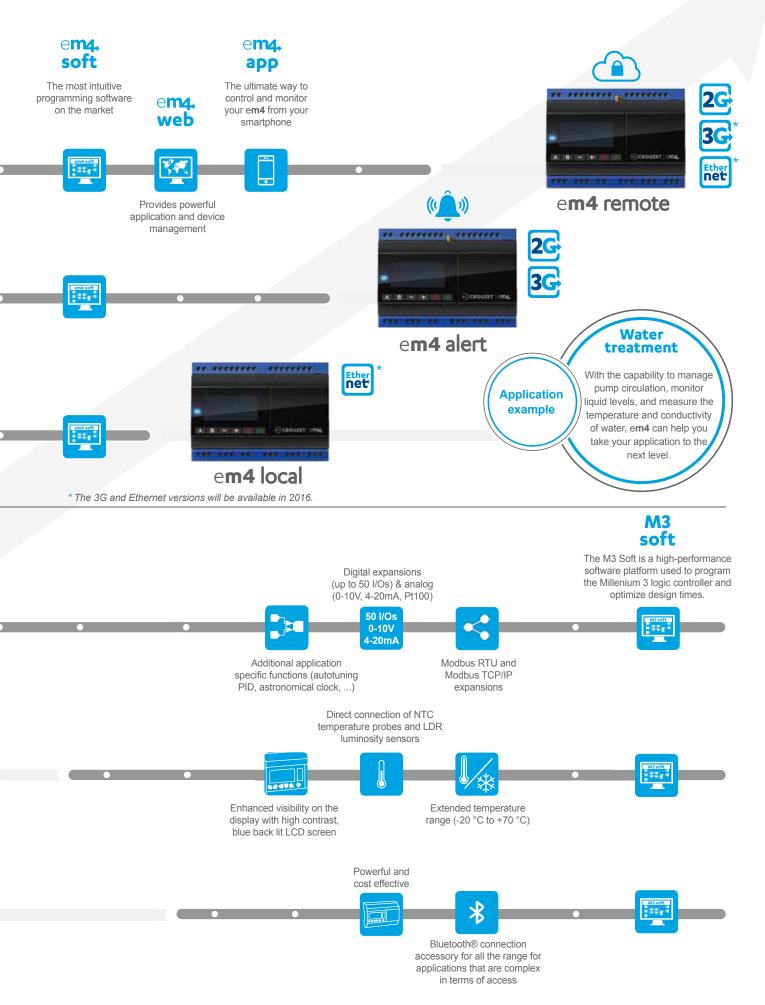
WHICH SOLUTION DO YOU NEED?

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.





3G

em4 toolbox

em4. soft

Ether Net

Cm4 remoteThe 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

Advanced event Equipment management fleet management Secured platform Advanced data 1 A and connections history Device Advanced maintenance monitoring and & management control functions Advanced remote Map localization services for your customers Automatic clock Customizable synchronization web interface



Machine /





e**m4 alert**

Nano-PLC that can alert you via SMS and email

em4, app

- 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

SIM card (2G & 3G versions) & remote management

subscription included for one year (em4 web, em4 app)

em4. web

em4 toolbox

2G 3G

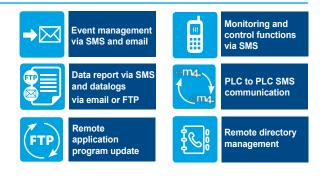
em4, soft



em4 toolbox

e**m4, soft**

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



	PLC with local functions only		<	Modbus RS485 slave option interface
0-10V 4-20mA	Embedded configurable 0-10V/ 4-20 mA accurate analog inputs		em4 soft	The most intuitiv graphical function block language
Modbus TCP/IP	Modbus TCP/IP client and server	*		

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

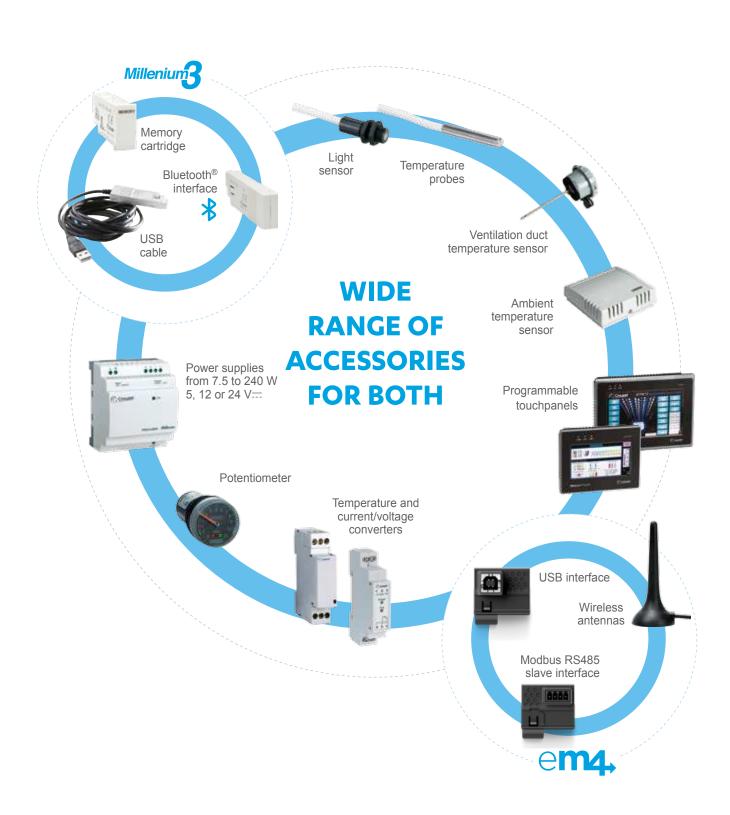
- > Easily integrate one of our three high tech designs in your machine
- Adapt your application during its lifecycle thanks to the enhanced controlling performances



	Millenium 3 range	e m4 range
	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
ĤМІ	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:



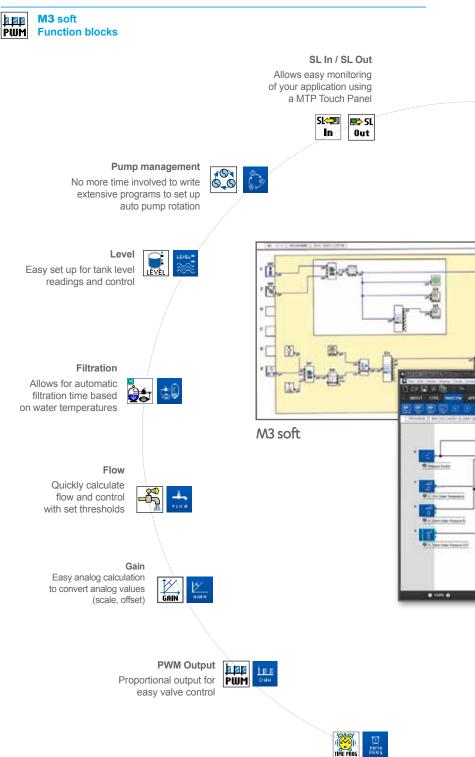


Download M3 soft



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.

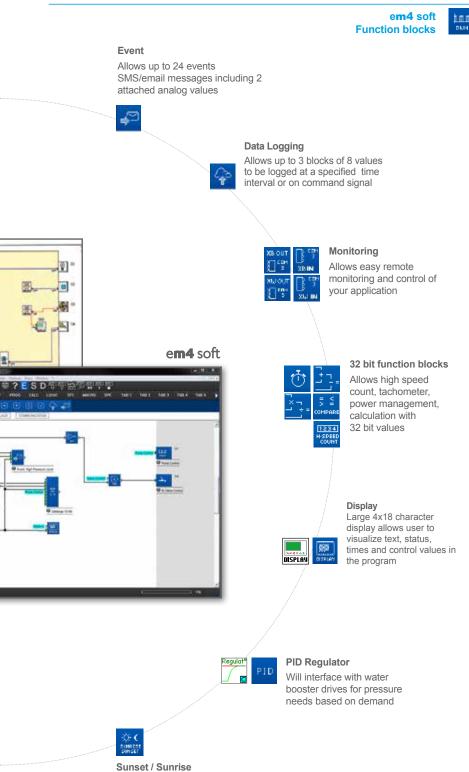


Time Prog Easily schedule time events based on calendar

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.



Calculate the sunrise and

sunset time

e**m4, 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

								wanabi	lity/Compati	Sincy
	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				
33		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		16 (6 configurable as analog)	8 relays 8 A and 2 relays 5 A				
and the state state with		Kit 26 Smart*		$100 ightarrow 240 \ V \sim$	16	8 relays 8 A and 2 relays 5 A				
ompact version	ons									
	A Description of the local division of the l	CD12 Smart*	88 974 041	24 V	8 (4 configurable as analog)	4 relays 8 A	~		~	~
		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	~		~	1
With dis	nlav	CD20 Smart*		$100 \rightarrow 240 V \sim$	12 (0 configurable as analog)	8 relays 8 A		~		
vviti dis	spiay	CB12 Smart*	88 974 021		8 (4 configurable as analog)	4 relays 8 A	~			
	H REFERENCE			$24 \text{ v}_{}$ $100 \rightarrow 240 \text{ V}_{\sim}$			•	~		•
-	1	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									
	-	XD10 Smart*	88 974 141		6 (4 configurable as analog)	4 relays 8 A	~		 ✓ 	~
	No. of Concession, Name	XD10 Smart*	88 974 143	$100 ightarrow 240 V \sim$	6	4 relays 8 A		~		
	COLUMN TWO IS NOT	XD26 Smart*	88 974 161	24 V	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	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		~		
	- Contraction of the Contraction	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 E	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				
andwich exte	nsions									
-5		XN05 Modbus TCP/IP	88 970 270	24 V						~
. c	ommunication	XN06 Modbus RS485	88 972 250	24 V						~
		XN07 Master RS485	88 974 250	24 V 						
-		XE10	88 970 321	24 V	6	4 relays 5 A				~
	igital	XE10	88 970 323	$100 \rightarrow 240 \; V \sim$	6	4 relays 5 A		~		~
ermination Ex	tensions									
		XR06	88 970 211	24 V	4	2 relays 8 A	~			~
. week	-	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	~			~
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		~		~
-		XA03 3xPt100	88 970 800	24 V	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				~
are board and	d resin board	versions								
(manufacture of the second	-	NB12	88 970 001	24 V	8 (4 configurable as analog)	4 relays 8 A	~			
205	Same	NB12		$100 ightarrow 240 \ V \sim$	8	4 relays 8 A				
	(IIIIIIII)	NB20	88 970 011		12 (6 configurable as analog)	8 relays 8 A				
Bare bo	pard	NB20		$100 \rightarrow 240 V \sim$	12 (0 configurable as analog)	8 relays 8 A				
Date DC		NBR12	88 973 001				~		~	
	and the second second				8 (4 configurable as analog)	4 relays 8 A				
Constanting of the	-	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 b	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 44	88 950 307	$100 ightarrow 240 V \sim$	24 V	30 W	1.2 A
100 B	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 \rightarrow 36 V \sim	24 V	$6 \rightarrow 10 \; W$	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
10	88 970 510	0.5 m serial link cable: Millenium 3 \rightarrow DB9 M
I. W.	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

and the second second second second							
	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						
the second secon	0-10 V Temperature sensors						
	Temperature probes Pt100 & Thermocouple						
Temperature and signal converters							
	Thermocouple Pt100/Pt1000 \rightarrow 0-10 V						
L.	PWM to 0-10 V/4-20 mA to 0-10 V						
Other accessories and kits							

Standard Smart and Essential product kits

Removable connectors Potentiometer Ø 22 mm

Faceplates





em4, RANGE

		Co	onnec	tion ty	/pe					
Produ	ct description	M	2G	3G	Ether	Glossy black	D	etails		
Bases							Common characteristics:			
	em4 remote 2G*		~			88 981 153				
	em4 remote 3G*			~		-				
	em4 remote Ethernet*				~	-	- Supply: 24V			
	em4 alert 2G	Image: Second conditional stress in the second condit stress in the second conditional stress in the second c								
	em4 alert 3G			~		88 981 123				
	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		
🤛 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 standard 3 m antenna - The USB interface		- The e m4 soft (USB key)	
	Starter kit em4 alert 3G			~		88 981 126				
	Starter kit em4 local	~				88 981 106	The section of Directory			
	Starter kit em4 local Ethernet	<i>v</i>		~	88 981 136**					
Evaluation cases							The ready-to-use e	valuation case includes:		
\frown	Evaluation case em4 remote 2G*		~			88 980 185				
	Evaluation case em4 remote 3G*			~		88 980 186**				
	Evaluation case em4 remote Ethernet*				~	-				
	Evaluation case em4 alert 2G		~			88 980 181	- The simulator PCB for the 16 Inputs with switches, potentiometers			
	Evaluation case em4 alert 3G	Image: Second								
	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 numb	
es	em4 USB interface black	88 980 110	Programmable touch panels			
Intertaces	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	
SOLIE	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	
A	USB cable 3 m B type	88 980 170		- 7" color touch panel		
	em4 soft (USB key)	88 980 140	MTP8/70 user kit*	 - 2x Modbus RS232/RS485 serial port - USB port, Ethernet TCP/IP port 	88 970 496	
es	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	
saiiddns	Modular power supply 24 V 15 W	88 950 304		(88 980 120)	00 300 172	
	Modular power supply 24 V== 30 W	88 950 307	MTP6/50 - MTP8/70 programming kit (USB)	- USB - Mini USB cable	88 970 501	
	Modular power supply 24 V== 60 W	88 950 302	(000)	- EB Software (CD)		
			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

CANADA

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