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







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 different types of products: standard products, adapted products and products specially developed for a customer. Introducing the adaptation wheel...





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



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.

Remotely manage your

Remotely manage your equipment and application programs

em4 remote

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

The PLC which sends alerts

via SMS, stores data logs in

.csv (Excel) and sends them







Remotely display or control data values with an app/web platform Receive and manage notifications when an event occurs in your application

Periodically receive data log reports by email or FTP





→⊠

Remotely display or control data values with SMS Receive an SMS or an email when an event occurs in your application

Embedded configurable 0-10V/4-20mA accurate analog inputs







Powerful & up to 24 analog inputs included

Modbus RS485 slave interface option for connection to MTP
Touch HMI

by email or FTP

em4 alert

e**m4 local**

The em4 for stand alone use or local area network

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.

Smart Expandable

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

Smart

Smart Compact

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



Smart Compact

Essential

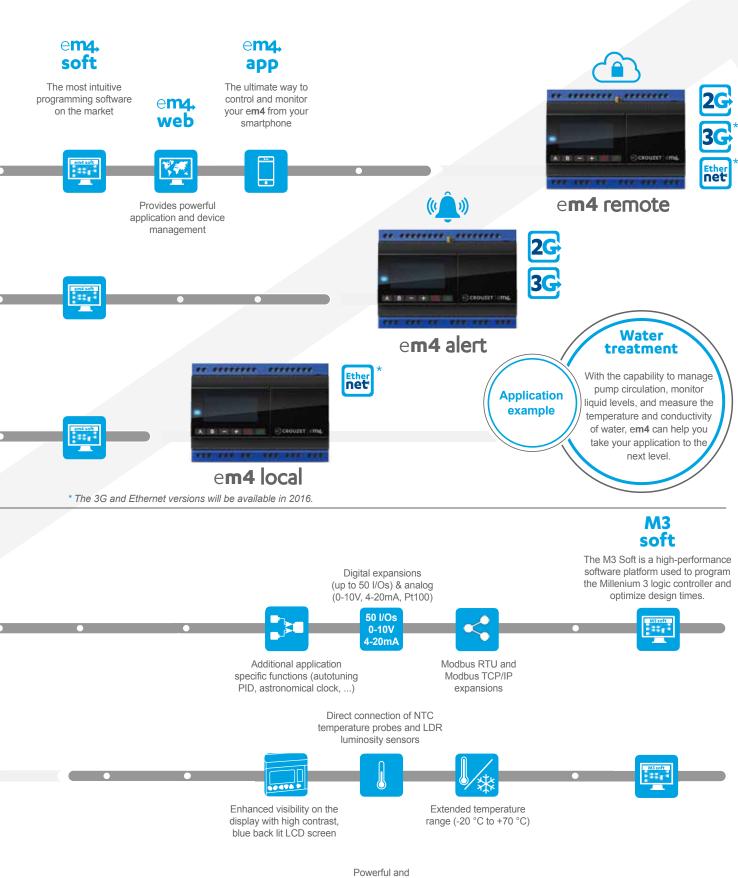
The right product to tackle simple applications that still require a powerful logic controller



Application example

Millenium 3 offers both standard and customized product solutions for a range of applications, including automatic barriers, automatic doors, turnstiles, sectional doors and disabled access ramps.

Access Control



cost effective

Bluetooth® connection accessory for all the range for applications that are complex in terms of access

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.



Millenium Smart Expandable

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

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



0-10V

4-20mA

Digital expansions up to 50 I/Os

Analog 0-10V,

Pt100 expansions

Modbus RTU and

Modbus TCP/IP

expansions

4-20 mA,



Highly visible blue LCD



Direct connection of NTC temperature probes



Additional application specific functions



Extended temperature range (-20 °C to +70 °C)



Bluetooth® connection accessory



Multiple configuration options derived from an extensive product range with numerous accessories

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
- With or without display, in 24 V==, 12 V==, 24 V \sim and 100 \rightarrow 240 V \sim versions



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 controller

- Compact versions: 12 I/Os and 20 I/Os
- > Expandable versions: 10 I/Os and 26 I/Os
- 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



Highly visible blue LCD



Direct connection of NTC temperature probes



Additional application specific functions



temperature range (-20 °C to +70 °C)



Bluetooth® connection accessory



Powerful and cost effective



Digital expansions up to 50 I/Os



Analog 0-10 V, 4-20 mA. Pt100 expansions



Modbus RTU and Modbus TCP/IP expansions



Simplified Bluetooth® connectivity







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)

em4 toolbox

em4. soft

em4. web

em4, app



Machine / Equipment fleet management



Secured platform and connections

Device

maintenance

& management

Map localization



Advanced data history

Advanced event

management



Advanced monitoring and control functions



Advanced remote services for your customers



Automatic clock synchronization



Customizable web interface







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



Event management via SMS and email

Data report via SMS

and datalogs

via email or FTP



Monitoring and control functions via SMS



PLC to PLC SMS communication



Remote application program update



Remote directory management



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

em4 toolbox

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



PLC with local functions only



Modbus RS485 slave option interface



Embedded configurable 0-10V/ 4-20 mA accurate analog inputs

Modbus TCP/IP

client and server



The most intuitive graphical function block language





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.





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



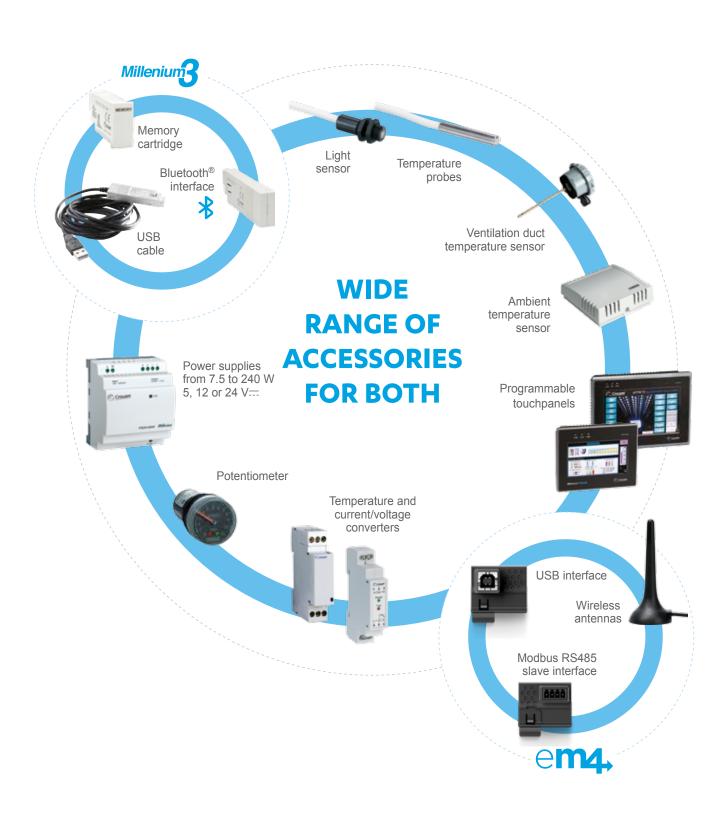




	Millenium 3 range	e m4 range	
	12 V, 24 V	24 V	
Power Supply	24 V \sim , 100 \rightarrow 240 V \sim		
Highly Visible	Blue (Smart) or Green (Essential)	Black on white / white on black	
HMI	4 rows of	18 characters	
Versions	Compact versions: 12 and 20 I/Os Expandable versions: 10 and 26 I/Os up to 50 I/Os	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)	
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 ye	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:







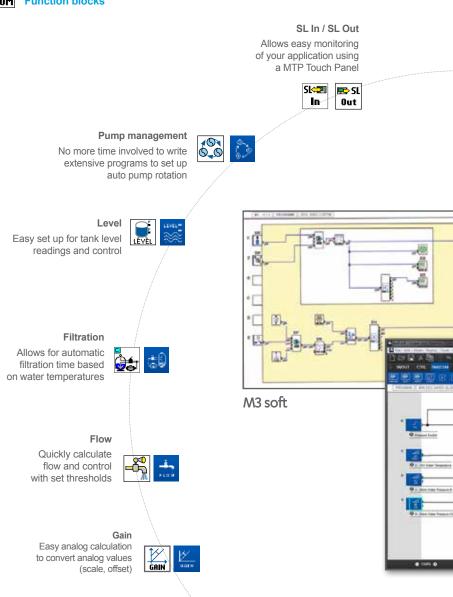
Download em4 soft

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 customise your applications.



M3 soft Function blocks



PWM Output

Proportional output for easy valve control

9 9 9





calendar

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.





Event

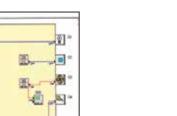
Allows up to 24 events SMS/email messages including 2 attached analog values



Data Logging



Allows up to 3 blocks of 8 values to be logged at a specified time interval or on command signal





Monitoring

Allows easy remote monitoring and control of your application





32 bit function blocks

Allows high speed count, tachometer, power management. calculation with 32 bit values



Display

Large 4x18 character display allows user to visualize text status times and control values in the program



PID Regulator

Will interface with water booster drives for pressure needs based on demand



Sunset / Sunrise

Calculate the sunrise and sunset time

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
 - 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

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
- 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 Part Essential Inputs **Outputs** Output Type Supply 24 V number version * 0.5 A/PWM M3 Smart kits Kit 12 Smart* 88 974 080 24 V.... 8 (4 configurable as analog) Kit 12 Smart* 88 974 081 100 → 240 V~ 4 relays 8 A Kit 20 Smart* 88 974 082 24 V 12 (6 configurable as analog) 8 relays 8 A 12 8 relays 8 A Kit 20 Smart* 88 974 083 $100 \rightarrow 240 \,\mathrm{V} \sim$ 16 (6 configurable as analog) 8 relays 8 A and 2 relays 5 A Kit 26 Smart* 88 974 084 24 V== 88 974 085 Kit 26 Smart* 100 → 240 V ~ 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 → 240 V~ 4 relays 8 A CD20 Smart* 88 974 051 24 V== 12 (6 configurable as analog) 8 relays 8 A With display CD20 Smart* 88 974 053 100 → 240 V~ 12 8 relays 8 A 4 relays 8 A CB12 Smart* 88 974 021 24 V---8 (4 configurable as analog) CB12 Smart* 88 974 023 4 relays 8 A $100 \rightarrow 240 \text{ V} \sim$ 8 CB20 Smart* 88 974 031 24 V== 12 (6 configurable as analog) 8 relays 8 A 100 → 240 V~ CB20 Smart* 88 974 033 8 relays 8 A Without display 12 **Expandable versions** XD10 Smart* 88 974 141 24 V.... 6 (4 configurable as analog) 4 relays 8 A XD10 Smart* **88 974 143** 100 → 240 V ~ 6 4 relays 8 A 16 (6 configurable as analog) 8 relays 8 A and 2 relays 5 A XD26 Smart* 88 974 161 24 V.... With display 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 XB10 Smart* XB26 Smart* 88 974 151 24 V== 16 (6 configurable as analog) 8 relays 8 A and 2 relays 5 A Without display XB26 Smart* **88 974 153** $100 \rightarrow 240 \, \text{V} \sim$ 16 8 relays 8 A and 2 relays 5 A With Removable Terminal Blocks CD12 RBT Smart* 88 974 441 24 V.... 8 (4 configurable as analog) 4 relays 8 A 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---XN06 Modbus RS485 Communication 88 972 250 24 V-XN07 Master RS485 88 974 250 24 V== XE10 88 970 321 24 V== 6 4 relays 5 A Digital XE10 **88 970 323** 100 → 240 V ~ 4 relays 5 A **Termination Extensions** XR06 88 970 211 24 V.... 2 relays 8 A 4 XR06 **88 970 213** $100 \rightarrow 240 \ V \sim$ 2 relays 8 A XR10 4 relays 8 A 88 970 221 24 V= 6 XR10 88 970 223 100 → 240 V~ 4 relays 8 A XR14 88 970 231 24 V---4 relays 8 A and 2 relays 5 A 8 Digital XR14 88 970 233 4 relays 8 A and 2 relays 5 A 88 970 800 24 V=== 3 analog (Pt100) Analog 2 analog 0-10 V/0-20 mA 2 analog 0-10V/PWM 88 970 241 24 V (1 Pt100) Bare board and resin board versions NB12 88 970 001 24 V.... 4 relays 8 A 8 (4 configurable as analog) NB12 **88 970 003** 100 → 240 V ∼ 8 4 relavs 8 A NB20 12 (6 configurable as analog) 88 970 011 24 V== 8 relays 8 A NB20 Bare board **88 970 013** 100 → 240 V ~ 12 8 relavs 8 A NBR12 88 973 001 24 V---8 (4 configurable as analog) 4 relays 8 A NBR26 88 973 061 24 V---16 (6 configurable as analog) 10 relays 8 A NBR32 88 973 211 24 V 20 (6 configurable as analog) 12 relays 8 A NBR40 Resin board 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	$100 \rightarrow 240 \text{ V} \sim$	24 V	7.5 W	0.3 A
	88 950 304	$100 \rightarrow 240 \text{ V} \sim$	24 V===	15 W	0.6 A
49.255	88 950 307	$100 \rightarrow 240 \text{ V} \sim$	24 V===	30 W	1.2 A
- P	88 950 302	$100 \rightarrow 240 \text{ V} \sim$	24 V===	60 W	2.5 A
	88 950 305	$100 \rightarrow 240 \text{ V} \sim$	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 → 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			
= 01	88 970 102	3 m serial link cable: PC DB9 F \rightarrow Millenium 3			
110	88 974 104	$\label{eq:millenium 3} \rightarrow Bluetooth^{@} \ interface \ (class A 10 \ m)$			
	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			
-	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					
0	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	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				
Other accessories and kits					
	Standard Smart and Essential product kits				

Removable connectors Potentiometer Ø 22 mm

Faceplates



Check out the Millenium 3 datasheets!

⊖m4, RANGE

		Co	nnec	tion ty	ре				
Product description		W	2G	3G	Ether	Glossy black	Details		
Bases							Common characteristics:		
** *******	em4 remote 2G*		~			88 981 153			
	em4 remote 3G*			~		-			
Average Court	em4 remote Ethernet*				~	-	- Supply: 24V		
We think the second	em4 alert 2G		~			88 981 113	- Inputs: 16 digital inputs (including 4 high speed, 8 analog 0-10 V / potentiometers and 4 analog 0-10 V / 4-20 mA)		
	em4 alert 3G			~		88 981 123	2 rollaye errana e rollaye erry		
	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 standard 3 m antenna	- The USB interface - The USB programming cable	
em4.	Starter kit em4 remote 3G*			~		-			
	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
	Starter kit em4 alert 3G			~		88 981 126	- The standard 3 m antenna	- The USB interface - The USB programming cable	key)
	Starter kit em4 local	~				88 981 106	- The em4 local nano-PLC		
	Starter kit em4 local Ethernet				~	88 981 136**	- The em4 local hand-PLC	- The Ethernet cable	
Evaluation cases							The ready-to-use e	valuation case includes:	
	Evaluation case em4 remote 2G*		~			88 980 185	- The starter kit (description above) - The power supply 110-230 Va with Europe and US adaptor - The simulator PCB for the 16 Inputs with switches, potentiometers and terminals to connect your sensor for evaluation - The simulator PCB for the 10 Outputs with 11 LEDs and terminals to connect the 2 static outputs to a device for evaluation		
→ em4.	Evaluation case em4 remote 3G*			~		88 980 186**			
	Evaluation case em4 remote Ethernet*				~	-			
	Evaluation case em4 alert 2G		~			88 980 181			
	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
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
Se	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	For use with em4 interface RS485 Modbus interface (88 980 120)	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	For use with em4 interface RS485 Modbus (88 980 120)	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

^{*} 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.



Managing flashing on illuminated signs

AMERICAS

EUROPE / MIDDLE EAST / AFRICA

ASIA / PACIFIC

CANADA

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