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OVERVIEW

AUTOMATION



MILLENIUM 3 ACCESSORIES

em4

ABOUT CROUZET

Supported by an experienced technical team, Crouzet 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 is a brand of InnoVista Sensors™.



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

Through its brands, Crouzet and Systron Donner Inertial, InnoVista Sensors™ offers a wide range of reliable, efficient and customizable components dedicated to the Aerospace & Defense, Transportation and Industrial markets 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.

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

www.innovistasensors.com

Designs & Manufactures



Sensors



Controls



Actuators

For



Aerospace & Defense



Transportation



Industry

ADAPTATIONWHEEL

To meet market expectations and provide customers with the right solutions within the shortest timeframes, Crouzet 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 factory-mounted 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?

4

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







Remotely display or control data values with an 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 Touch HMI

e**m4 alert**

The PLC which sends alerts via SMS, stores data logs in .csv (Excel) and sends them by email or FTP

em4 local/ethernet

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

10 E D R B D

Smart Compact

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



98 99999999



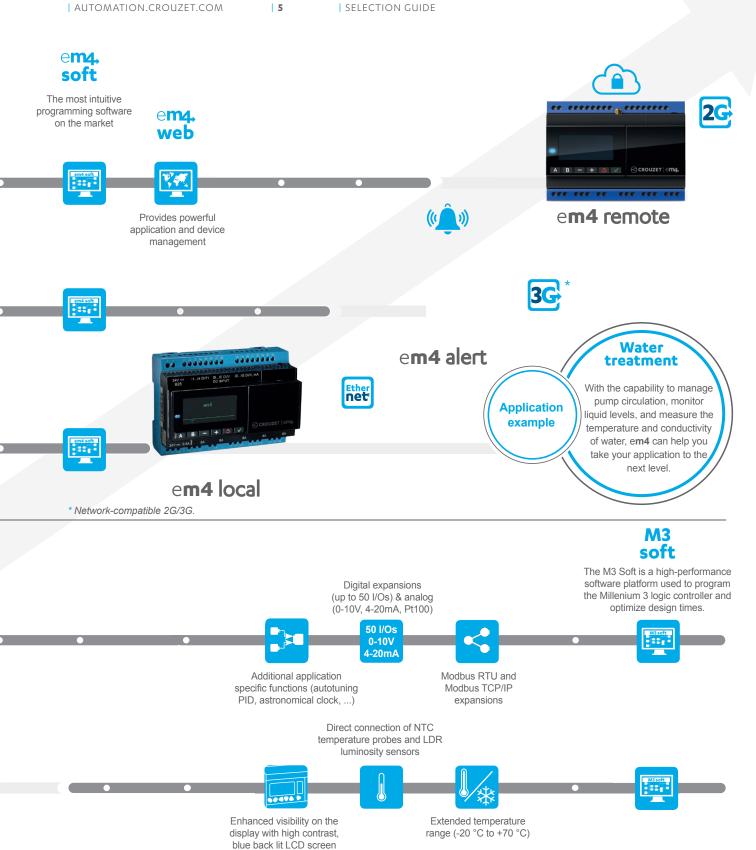
Essential

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



Application example Access Control

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.



Powerful and 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

7

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 version) & remote management subscription included for one year (em4 web, em4 app)

em4 toolbox

em4. soft em4. web



Machine / Equipment fleet management



Advanced event management

Advanced data

history





Advanced monitoring and control functions





Advanced remote services for your customers



Automatic clock synchronization



Customizable web interface



Device

maintenance

& management



Compatible réseau 2G/3G.

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

em4. soft



Event management via SMS and email

Data report via SMS

and datalogs

Remote

application

via email or FTP

program update



Monitoring and control functions via SMS



PLC to PLC SMS communication



Remote directory management

em4 local/ethernet

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



The most intuitive

Ether **net**



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

em4 toolbox

em4, soft







Modbus TCP/IP client and server



graphical function block language

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



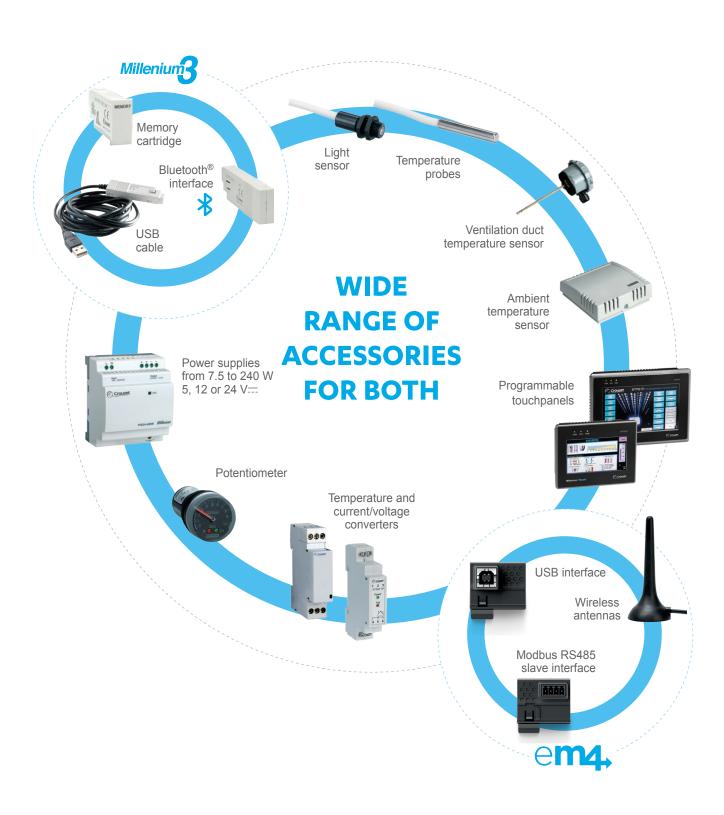




	Millenium 3 range	e m4 range
	12 V, 24 V	24 V
Power Supply	24 V∼, 100 → 240 V∼	
Highly Visible	Blue (Smart) or Green (Essential)	Black on white / white on black
НМІ	4 rows of	18 characters
Versions	Compact versions: 12 and 20 I/Os Expandable versions: 10 and 26 I/Os up to 50 I/Os	Expandable version: 26 I/Os up to 46 I/Os
Inputs on	Digital, High speed 6kHZ	Digital, High speed 60kHz
the base	Analog 0-10V 5%, Potentiometer, NTC, LDR	Analog 0-10 V, 4-20 mA 1%, Potentiometer, NTC, LDR
Outputs on the base	Relays 8 A or 5 A	Relays 8 A or 6 A
Oil tile base	Static Digital or PWM	Static Digital or PWM
	Digital A 101/102/	Digital
Inputs on expansions	Analog 0-10V 2%	Analog 0-10 V 1%
oxpunoiono	4-20 mA 1%	4-20 mA 1%
	PT100 1,5°C	Dolov 9 A or 6 A
	Relay 8 A or 5 A 0-10V 5%	Relay 8 A or 6 A 0-10 V 1%
Outputs on expansions		4-20 mA 1%
·	Static Digital or PWM	Static Digital or PWM
	USB cable	USB interface
Programming	USB Cable	
interface		Ethernet port
		Remote download
Ethernet /Com	Ethernet Modbus TCP/IP (server)	Ethernet version: on base (Modbus TCP/IP server & client)
700111	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 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

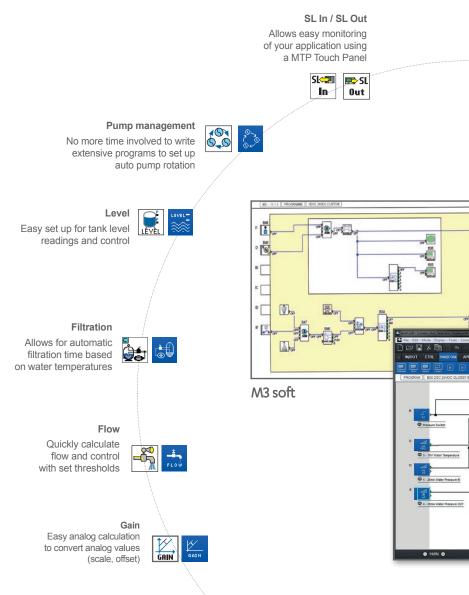
- Possibility of creating and saving custom macros allowing the user to simplify programs
- Possibility of locking macros with a password for greater security

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

PWM



Time Prog
Easily schedule time
events based on
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.







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

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

Download your software:



Download M3 soft



Download em4 soft

MAKE UP YOUR OWN SOLUTION

MILLENIUM 3 RANGE Availability/Compatibility Part Essential Inputs **Outputs** Output Type Supply 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 Kit 20 Smart* 12 8 relays 8 A 88 974 083 $100 \rightarrow 240 \, \text{V} \sim$ 16 (6 configurable as analog) Kit 26 Smart* 88 974 084 24 V== 8 relays 8 A and 2 relays 5 A 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 $100 \rightarrow 240 \text{ V} \sim$ CD12 Smart* 88 974 043 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 88 974 031 24 V== 12 (6 configurable as analog) 8 relays 8 A 88 974 033 100 → 240 V~ CB20 Smart* 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* 4 relavs 8 A 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 → 240 V~ 2 relays 8 A XR10 88 970 221 24 V---4 relays 8 A 6 XR10 88 970 223 $100 \rightarrow 240 \text{ V} \sim$ 4 relays 8 A XR14 88 970 231 24 V---4 relays 8 A and 2 relays 5 A 8 Digital XR14 88 970 233 100 → 240 V~ 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 88 970 011 24 V== 12 (6 configurable as analog) 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---12 relays 8 A 20 (6 configurable as analog) 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 → 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
44.44	88 950 307	$100 \rightarrow 240 \text{ V} \sim$	24 V	30 W	1.2 A
Man Man	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 	$6 \rightarrow 10 \text{ W}$	0.4 A

Connection accessories, tools and programming software

Commodition accessories, tools and programming contracts					
	Part number	Description			
	88 970 111	M3 Soft: Millenium 3 programming software (CD-ROM)			
- C	88 970 108	Memory cartridge for transfer and saving of programs			
Ö	88 970 102	3 m serial link cable: PC DB9 F \rightarrow Millenium 3			
Econol Communication of the Co	88 970 104	$\label{eq:millenium 3} \rightarrow Bluetooth^{@} \ interface \ (class A 10 \ m)$			
	88 970 109	3 m USB link cable: $PC \rightarrow Millenium 3$			
	88 970 110	$Bluetooth^{\otimes}$ 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					
Taker Break	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				
02220	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					
000	Thermocouple Pt100/Pt1000 → 0-10 V				
	PWM to 0-10 V/4-20 mA to 0-10 V				
Other accessories and kits					
	Standard Smart and Essential product kits	回旋線線回			

Removable connectors Potentiometer Ø 22 mm

Faceplates



Check out the Millenium 3 datasheets!

⊖m4, RANGE

Connection type			ре						
Product description		SAN	2G	3G	Ether	Glossy black	Details		
Bases							Common characteristics:		
	em4 remote 2G*		~			88 981 153			
•	em4 alert 2G		V			88 981 113			
A B H H D D V	em4 alert 3G			V		88 981 123	- Inputs: 16 digital inputs (including 4 high speed, 8 analog 0-10 V / potentiometers and 4 analog 0-10 V / 4-20 mA)		
	em4 local	~				88 981 103			
	em4 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 alert 2G		~			88 981 116	- The em4 alert nano-PLC	- The USB interface - The USB programming cable	- The e m4 soft (USB key)
em4.	Starter kit em4 alert 3G			V		88 981 126	- The standard 3 m antenna		
	Starter kit em4 local	~				88 981 106	- The em4 local nano-PLC		- 7,
	Starter kit em4 Ethernet				V	88 981 136	- The em4 local hand-FLC	- The Ethernet cable	
Evaluation cases	Evaluation cases					The ready-to-use e	valuation case includes:		
	Evaluation case em4 remote 2G*		~			88 980 185			
em4.	Evaluation case em4 alert 2G		~			88 980 181	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		
	Evaluation case em4 alert 3G			~		88 980 182			
	Evaluation case em4 local	~				88 980 180			
	Evaluation case em4 Ethernet				V	88 980 183			

 $^{^{\}star}$ em4 remote 2G, include the first year of subscription to em4 remote access (em4 web & em4 app), with a SIM card.

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
S	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
Power supplies	Modular power supply 24 V 15 W	88 950 304
vers	Modular power supply 24 V 30 W	88 950 307
Pow	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

^{*} e**m4** cable not included in User Kit

PERFECTLY MATCH ALL OF YOUR REQUIREMENTS

Crouzet 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



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