

AUTOMATION & CONTROL

Overview



ABOUT CROUZET

100+ YEARS MANUFACTURING THE FUTURE *Together*

We design and manufacture **Mechatronic Products** to turn engineering ideas into real world applications

OUR MARKETS



OUR PRODUCTS



OUR SERVICES

MRO

SPARES

INSTRUMENTATION

WE ARE GLOBAL

2000+ collaborators,
10 Manufacturing Plants,
9 Sales Offices & 4 R&D Labs



📍 HEADQUARTERS

■ SALES OFFICES



VALENCE, **FRANCE**



VALENCE NORD, **FRANCE**



PARIS, **FRANCE**



NANTES, **FRANCE**



ORLEANS, **FRANCE**



VOUVRY, **SWITZERLAND**



CASABLANCA 1, **MOROCCO**



CASABLANCA 2, **MOROCCO**



HUIZHOU, **CHINA**



BANGALORE, **INDIA**



100+ years of customization,
adaptation & co-design
expertise at your service



When your application requires more than one of our high-quality standard products, Crouzet's multidisciplinary team is ready to partner with you in the development of the best customized solution dedicated to your project.



High-quality and
efficient manufacturing



Uncompromising and
highest standards



EXPERTISE AND TECHNOLOGY BEHIND EVERY PROJECT

OUR WIDE RANGE OF PRACTICAL AND EASY TO USE AUTOMATION AND CONTROL PRODUCTS ARE MANUFACTURED ACCORDING TO INTERNATIONAL AND ENVIRONMENTAL STANDARDS INCLUDING : UL, CSA, GL, CCC, TUV, CE, ROHS AND REACH.



AUTOMATION CONTROLLERS

THE MILLENIUM LOGIC CONTROLLERS



THE SMALLEST LOGIC CONTROLLER EVER!

Perfect for small-scale applications:

- › The only highly configurable and multipurpose industrial logic controller with a 17.5 mm (0.69") body
- › Fits in any control panel or machine and supports DIN rail and panel mounting
- › 8 highly configurable I/Os (analog, digital, high-speed, PWM). It can replace dozens of control panel products
- › Built-in Bluetooth communication to give wireless capabilities to your applications.
- › Easy program transfer at a distance



THE CLASSIC LOGIC CONTROLLER

For everyone and for any simple application:

- › Many functions in a single product
- › Smart Design: Adapted for modular panels, can be DIN-rail mount or panel mount
- › Different input power versions (available)
- › Easy to use & free software ›Expand up to 50 I/Os



THE COMMUNICATING LOGIC CONTROLLER

For all your simple applications with connectivity needs:

- › Control at a distance: Access to the front face from your PC, laptop, or mobile devices
- › Monitor your applications (Datalog, Events and FTP server connection)
- › Interact with other devices and program anywhere on your local network (via Ethernet or Modbus RTU)



THE PLC MADE SIMPLE

PLC performance with logic controller simplicity, for your high-end applications:

- › 26 I/Os: Configurable inputs to digital, analog & high-speed. Relay, static and PWM outputs available
- › Network communication: Ethernet (Modbus TCP/IP), Modbus RTU and Bluetooth
- › The ease of use of a simple logic controller



THE 5-IN-1 TELECONTROLLER

Control and monitor any application remotely with a cellular network:

- › Cellular Modem: Give cellular capabilities to your application
- › Alert system: Event alerts, status feedback and alarms wherever you are
- › Data logger: Measure and record key parameters
- › Nano-PLC: A PLC in a logic controller body
- › Display: Visualize and change parameters



AUTOMATION CONTROLLERS SOFTWARE



CROUZET SOFT

- › Easiest and most intuitive visual programming software
- › Pre-programmed application blocks like pump management, flow control, liquid level and many more



VIRTUAL DISPLAY

Visualize and manage your controller at a distance:

- › View and change parameters
- › Read & write programs
- › Download Datalog
- › Firmware update



Millenium3 Soft



Crouzet Soft



Virtual Display

Download it for FREE! <https://www.crouzet.com/software/download>

HMIS



HMIs

- › 4.3", 7" and 10" sizes available
- › **Several ways of communication:** Ethernet, Modbus RTU, SLin/SLout
- › **2 versions available:** High-Performance & Cost-Effective Essential



HMI SOFTWARE

- › Easy-to-use graphic software & pre-configured communication drivers
- › Wide range of tools to develop the perfect project



Crouzet Touch Soft

POWER SUPPLIES



MODULAR & INDUSTRIAL

- › Compact offer of 12 & 24 VDC DIN-Rail Power Supplies
- › From 10 W to 480 W
- › Up to 90 % efficiency

SENSORS & CONVERTERS



TEMPERATURE & SIGNAL CONVERTER

- › Convert temperature (Pt 100, 1000, Thermocouple J & K), current and PWM signals to voltage for use with Crouzet's Controllers



TEMPERATURE SENSORS

- › Air, duct, submersible and NTC Probes designed for simple & direct connection to Crouzet's Automation Controllers

SOLID STATE RELAYS



SINGLE-CHANEL AC SINGLE-PHASE

- Classic single relays available in multiple formats for any type of application
- › **Panel Mount:** Hockey-puck, Fast-on, Low-Profile and Mini-puck
- › **DIN-rail Mount:** 22.5 mm, 45 mm and 12 mm
- › **PCB Mount:** SIP



MULTI-CHANNEL AC SINGLE-PHASE

- 2 or 4 relays in one single package for space-saving needs
- › **Panel Mount:** Hockey-puck and Fast-on



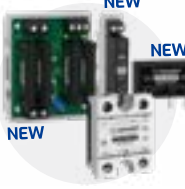
LOAD DIAGNOSTICS AC SINGLE-PHASE

- Single relays and add-on modules with load monitoring functions for heating systems
- › **Panel Mount:** Hockey-puck
- › **DIN-rail Mount:** Module



CONTACTOR / REVERSER AC 3-PHASE

- Solid-state contactors for 3-phase heaters and motors' control
- › **Panel Mount:** Contactor and Reverser
- › **DIN-rail Mount:** 90 mm Contactor



DC OUTPUT

- DC relays to control motors, lighting and other applications working on a DC power supply
- › **Panel Mount:** Hockey-puck
- › **DIN-rail Mount:** 12 mm and 58 mm Reverser contactor
- › **PCB Mount:** SIP

TIMERS



UNIVERSAL DIGITAL Syr-line

- › Super Multifunction with up to 138 operating functions
- › Universal connection
- › High-contrast LED screen
- › Precise time configuration
- › Limits and password settings
- › Program without power supply



PLUG-IN Syr-line

- › Compact body with 8 or 11 pin connections
- › Easy and quick plug & play
- › Very large dial for an easy set up
- › Single or double output in the same package
- › Protective cover



HIGH-POWER Syr-line

- › High-Power up to 16 Amps
- › Control more or bigger loads
- › Multi-function or Mono-function
- › Protective cover



DIGITAL 48X48 Syr-line TMR48-D

- › Big digits in a large digital screen
- › Wide and long visibility
- › Large buttons for an easy and quick programing
- › Water & Dust proof IP66



DOUBLE OUTPUT Syr-line

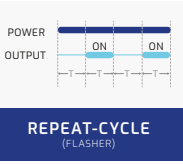
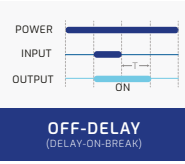
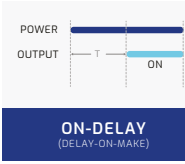
- › Double 8 Amps Output in the same 17.5 mm package
- › Second Relay can work instantaneously or delayed
- › **Special functions:** Alternator and Delayed Alternator



ANALOG 48X48 TMR48

- › Large dial for an easy and quick programing
- › Multi-function or Mono-function
- › 8 or 11 pin connections
- › Multi-range from 0.02 s to 300 h

LARGE CHOICE OF TIMING FUNCTIONS



+ All timing functions on the market available

COUNTERS



ELECTRONIC

- › Hour counting, Impulse counting, Ratemeter, Chronometer, Batch counting and Preset functions
- › LED, LCD and backlight LCD
- › 48x24 and 48x48 mm sizes available



ELECTROMECHANICAL

- › Hour counting and Impulse counting functions
- › Mechanical Dial visualization
- › 40x27, 42x29, 46x46, 48x48, 56x29, 56x46 and 93x35 mm sizes available

MONITORING RELAYS



ELECTRICAL MONITORING Three-Phase

- › Protect AC motors, HVAC Systems, Pumps, Conveyors, Packaging Machines and other loads
- › **Monitor in 3-phase networks (120 to 480 VAC):** phase sequence, phase failure, imbalance (asymmetry), over and undervoltage



CURRENT Single-Phase

- › Detect over and under current in a single-phase network
- › **Detection of 3 ranges:** 2-500 mA, 0.1-10 A and 2-20 A
- › **2 packages available:** 17.5 and 35 mm



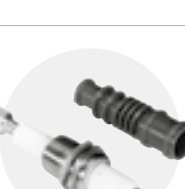
VOLTAGE Single-Phase

- › Detect over and undervoltage in a single-phase network
- › **Detection of range:** 0.2 to 600 VAC/DC
- › **2 packages available:** 17.5 and 35 mm



LEVEL CONTROL Pump up or down

- › Pump-up (filling), Pump-down (emptying)
- › Control one or two levels
- › **Measuring ranges:** 5-100 kΩ, 250-1 MΩ



PROBES Accessories

- › For use with level control relays
- › Electrode holder and protected suspension sensor

PNEUMATICS



LOGIC GATES

On Sub-base & Plug-in

- › **Functions:** OR, AND, YES (Buffer), NOT (Inverter)
- › **Operating pressure:** 2 to 8 bar
- › Blue, green, yellow, orange, light grey, dark grey product colors



TIMERS

On Sub-base

- › **Functions:** positive, negative, impulse and frequency generator
- › **Timing range:** 0.1 to 60 s
- › **Frequency range:** 0.02 to 8 Hz
- › **Operating pressure:** 2 to 8 bar



COUNTERS

- › Totalizing, Preset functions
- › 4, 5, 6 digits with or without reset
- › With or without pre-selection



POSITION DETECTORS

- › Pressure decay sensor, low force position, microvalve, miniature, compact, adjustable stop versions
- › **Permissive Fluids:** Air, inert gas
- › Different plunger, lever, roller and rotary head options



PRESSURE & VACUUM SWITCHES

- › Vacuum pressure switches with electrical output
- › Adjustable pressure switches with positive or negative output
- › Adjustable vacuum switches with pneumatics positive, negative or electrical output available

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