

ControlMaster CM15

Universal process indicator, 1/8 DIN

Making process control easy



Comprehensive display of process status

- Crystal-clear, full-color TFT display
- User-customizable

Exceptionally easy to use

- Intuitive user interface and clear text prompts make installation, commissioning and operation quick and simple

Comprehensive I/O

- 2 universal inputs, 1 analog output and 1 relay fitted as standard

Frequency input

- Direct, high accuracy connection to electromagnetic flowmeters

Scalable to match application requirements

- Comprehensive hardware and software options

Totalization and counter functions

- Calculation and display of flow total values
- Pulse counting capability

Problem-solving capability

- Flexible functionality including math, logic and totalization providing power to solve complex application requirements

Built to survive

- IP 66 and NEMA 4X environmental protection

Flexible connectivity

- Ethernet and MODBUS® communications

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Problem solving flexibility

Extensive functionality is available to provide flexible problem-solving capability; making the CM15 much more than just a process indicator.

Process alarms

8 independent process alarms can monitor any analog signal within the CM15, enabling extensive process monitoring capability. Alarms can be used to drive physical outputs or soft-wired to other functions within the indicator.

Real-time alarms

The 'alarm clock' functionality provided by the CM15's real-time alarms enables time-of-day decisions to be introduced into the indicator's actions or specific functions to be triggered routinely at specified times.

Delay timers

Event sequencing is enabled through the use of the CM15's delay timers. A predetermined delay and output duration can be programmed into each delay timer and timers can be linked together.

Custom linearizers

The CM15 has 2 independent 20-point custom linearizers that can be applied to any analog signal within the indicator. These linearizers can be used in applications such as level-to-volume conversion of a non-linear tank level or to accommodate special input signals or output devices.

Math

8 math blocks provide arithmetic, averaging, min. / max. hold, square root and signal switching functionality. Simple equations can be performed in a single math block or multiple math blocks can be nested together to construct complex equations.

Signal switching 'multiplexing' math blocks switch between 2 analog signals based on a trigger signal. For example, a backup sensor could be selected automatically on failure of a primary sensor.

Logic

8 comprehensive logic equations provide powerful interlock functionality. Inputs and outputs of the logic equations can be soft-wired to any digital signal within the indicator to maximize flexibility.

Totalizer

2 totalizers are available on the CM15. The totalizers can be configured to perform multiple functions:

- integration against an analog signal to totalize flow
- counting digital pulses
- totalization of flow based on a frequency signal from an electromagnetic flow meter

Frequency input

For maximum accuracy the CM15 can accept a frequency signal from an electromagnetic flow meter. The frequency signal can be totalized and displayed; an instantaneous flow rate can also be calculated and displayed on screen.

Ordering information

ControlMaster CM15 universal process indicator, 1/8 DIN	CM15/	X	X	X	X	X	X	X	/XXX
I/O build									
2 analog inputs, 1 analog O/P and 1 relay (Basic)		0							
2 analog inputs, 1 analog output and 2 relays (Basic + option board 1a)		1							
2 analog inputs, 2 analog outputs, 2 digital I/O and 4 relays (Basic + option board 1)		2							
Template / Functionality level									
Base			0						
Standard			S						
Dual point indication			D						
Communications									
None				0					
Ethernet				E					
RS 485 MODBUS				M					
Approval									
Standard CE					S				
cULus approval					U				
Power supply									
100 ... 240 V AC						0			
10 ... 36 V DC						1			
Language									
English							E		
German							G		
French							F		
Italian							I		
Spanish							S		
Special features									
None								0	
Unbranded front panel								B	
Configuration									
Standard									STD
Custom programming									CUS