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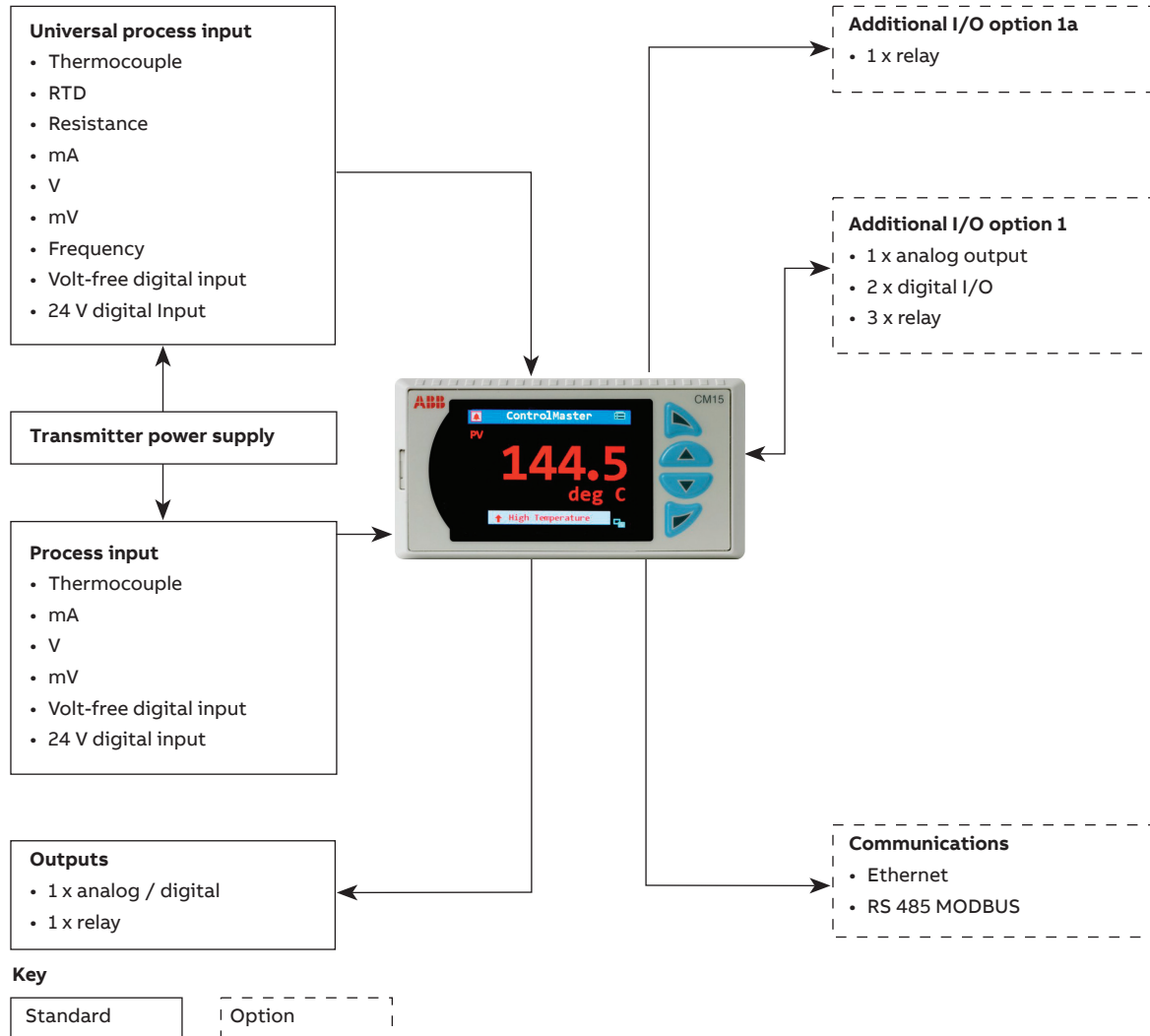# Overview

The ControlMaster CM15 is a feature-packed, ⅛ DIN, universal process indicator. A crystal-clear, full-color, TFT display shows operators exactly the information they need to know and provides operation and configuration menus in full text making the CM15 intuitive to use and very quick to install and commission.

Available as a basic indication-only model, or enhanced through plug and play function keys and I/O modules, the CM15 offers totalization, level, math, logic, counter and alarm functions making it extremely flexible and able to solve many demanding application requirements.

MODBUS and Ethernet communication options ensure easy integration and connectivity to supervisory or control systems.

Universal process input
- Thermocouple
- RTD
- Resistance
- mA
- V
- mV
- Frequency
- Volt-free digital input
- 24 V digital Input

Additional I/O option 1a
- 1 x relay

Additional I/O option 1
- 1 x analog output
- 2 x digital I/O
- 3 x relay

Transmitter power supply

Process input
- Thermocouple
- mA
- V
- mV
- Volt-free digital input
- 24 V digital input

Communications
- Ethernet
- RS 485 MODBUS

Outputs
- 1 x analog / digital
- 1 x relay

Key

Standard	Option

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Highly scalable

The CM15 is highly scalable in terms of both hardware and software, enabling it to meet the demands of simple indication duties through to more complex applications. The basic CM15 provides basic indication, totalization and level functionality. Templates and functionality can be increased by adding function keys to the basic model as shown in Figure 1, while retaining previous templates and functionality.

Level	Function keys	Template	Functionality
Base	0	Single PV indication Single PV with totalizer Single totalizer Single level with volume	Process alarms Totalization Volume computation • Specific gravity compensation Minimum, maximum and average calculation
Standard	1		Logic Math Custom linearizers Delay timers Real time alarms Bank control Template customization
Dual	2	Dual PV indication Dual PV with totalizer Dual totalizer Dual level with volume	Display customization

Figure 1   Overview of template options