Control cabinet systems YCCP, for process automation





Control cabinet systems YCCP, for process automation Key features

FESTO

At a glance A range of designs is available: • Control of 4 ... 20 pneumatic • Stainless steel or steel variants Valve terminal types: • VTSA-F or MPA, in combination with process valves • 760 x 760 x 300 or 800 x 1000 x 300 (W x D x H) CPX modules • Indoor and outdoor variants to choose from System overview (example) 1 Controller 1 2 Higher-order controller 3 Valve terminal 2 4 Actuator 5 Process valves 3 00 C ò 00

4

5

Control cabinet systems YCCP, for process automation

Key features

Control and signal elements





- Note

A maximum of 20 knob switches is possible.

FESTO

- 1 2 signal lights are always fitted per knob switch as standard, e.g. to indicate the end positions of the process valves. If there is no end-position sensing, the signal lights can be freely programmed for other functions.
- 2 Manual operation of the valves using knob switches in the control cabinet doors

Ordering data – Product options



Configurable product This product and all its product options can be ordered using the configurator. The configurator can be found under Products on the DVD or

→ www.festo.com/catalogue/...

 Part No.
 Type code

 8061000
 YCCP



Control cabinet systems YCCP, for process automation Peripherals overview using a sample configuration

70 \bigcirc $\langle \bigcirc \rangle$ 6 000000 $\langle \bigcirc \rangle$ C \odot 0





FESTO

FESTO

Control cabinet systems YCCP, for process automation

Peripherals overview using a sample configuration

System components **Brief description** 1 Circuit breaker An overcurrent protection device is included in the scope of delivery, to prevent damage caused by a temperature rise as a result of a current that is too high 2 Power supply unit Power supply for valve terminal, 24 V DC CACN 3 Push-in L-fitting Inlet for air supply QSL 4 Terminal For connection to the power supply 5 Wall mounting fixture For mounting on a profile, frame or for fixing to the wall 6 Multiple connector For simple pneumatic connection of the process valves NPMA 7 Control cabinet lighting LED, 24 V DC, for illuminating the working space within the control cabinet; is switched on and off by hand 8 Electrical terminal I/O modules for connecting sensors, e.g. limit switches CPX 9 Valve terminal MPA or VTSA, depending on configuration, with up to 20 valves For plugging in devices needed for servicing, e.g. laptop or measuring devices; available in various versions 10 Socket 11 Transport lugs For transporting the control cabinets by crane, included fully assembled in scope of delivery; blanking plugs for removal of the transport lugs are enclosed separately 12 Housing In powder-coated steel sheet or stainless steel versions; suitable for outdoor and indoor areas 13 Power supply Power supply including mains switch 14 Operating mode switch For changing over between the operating modes "MANUAL" and "AUTO" using a key switch 15 Service unit combination Manually operated on/off valve, filter regulator with pressure gauge, branching module configurable with or without pressure switch, installed in the control cabinet for outdoor variants MSB6 16 Push-in L-fitting Pneumatic supply to the control cabinet QSLV-1/2-16 17 Silencers For noise reduction at the exhaust ports of the components U-1/2-B Automatic selection, to match the configured control cabinet Housing size 760 x 760 x 300 mm or 800 x 1000 x 300 mm (W x D x H) Heating With hygrostat, to avoid temperatures that are too low or humidity that is too high within the control cabinet

Control cabinet systems YCCP, for process automation System components

FESTO

Ordering using the configurator		
The control cabinet system comprises a number of tried and tested compon- ents from Festo. The scope and nature can be adjusted using the configur- ator on the pages "Basic require- ments" "Process valves" and "Options".	Control cabinet for water technology Solution advisor General information Eask requirements O Process values	() Restart Optices ② Overview
System components	Description	Technical data
The number of process valves to be activ	rated by the valve terminal	• (
	 Supply of compressed air to the control valves from the control cabinet Reading the end positions 	• 4 20 process valves possible
Power supply		
4	Electrical supply to the control cabinet including mains switch; a power supply unit is additionally installed	 1 AC, 230 V, 50 Hz 3 AC, 400 V 24 V
Fieldbus protocol		
<i>甲帛○耳口[®] 自由玄子 甲帛○耳口[®] 水信寸子</i>	 The selection of the fieldbus protocol determines the valve terminal types PROFIBUS or PROFINET fieldbus protocols¹⁾ 	 VTSA-F or MPA, in combination with CPX modules
Manual operation	• A low switch analysis switching between manual and sutematic mode	• 2 signal lights are always fitted nor
	 A key switch enables switching between manuar and automatic mode The technical implementation must be carried out using the customer's PLC In order for manual switching to be effective, the "Manual/Auto" selector switch must be set to "Manual" Manual operation of the valves using jack switches in the control cabinet doors 	 2 signal lights are always inted per knob switch as standard, e.g. to indicate the end positions of the process valves A maximum of 20 knob switches is possible
Type of housing		
	 You can choose from the following materials: Stainless steel 1.4301 (AISI 304) Powder-coated steel sheet 	Automatic selection, to match the configured control cabinet [B x D x H] • 760 x 760 x 300 mm • 800 x 1000 x 300 mm
1) Other fieldbus protocols on request		

∙⊙∙ New

FESTO

Control cabinet systems YCCP, for process automation

System components

Description Technical data System components Installation site Indoors (+5 ... +40°C) • The service unit is installed on the outside of the housing • The housing material can be freely selected Outdoors (-20 ... +40°C) • The service unit is installed in the control cabinet • Stainless steel housing material · With heating End-position sensing of the process valves Digital inputs to which the signals can be routed are provided in the control • 2 digital inputs, sensing "open and cabinet for each process valve closed" • 1 digital input, sensing "open or closed" Wiring for the I/O module • External signals (e.g. limit switches) are connected directly to the electronics module • External signals (e.g. limit switches) are connected to an additional terminal strip in the control cabinet Socket Provided for plugging in devices needed for servicing • For plug type F, CEE 7/4 (EU) • For plug type J, SEV 1011 (Switzerland) • For plug type G, BS 1363 (UK) Service unit components Manual on/off valve • Rotary knob with detent · The system is vented when it is switched off Filter regulator • With pressure gauge • Grade of filtration: 40 µm Pressure switch • For sensing a pressure range of 1.5 ... 14 bar External supply option in the event of a pressure failure A separate port which can be supplied with compressed air in order to achieve a specific state of the process valves Control cabinet lighting A CONTRACTOR Lighting can optionally be ordered to illuminate the control cabinet; is switched • LED, 24 V DC on and off by hand



Control cabinet systems YCCP, for process automation Technical data

- The layout is dependent on the configuration
- Power supply 24 V DC or 230 V AC or 400 V AC
- Select from various fieldbus protocols for communication with the higher-order controller
- Indoor and outdoor variants to choose from
- Optional internal lighting
- Suitable heating



General technical data

Mains voltage	[V AC]	230 (1L/N/PE)
		400 (3L/N/PE)
	[V DC]	24
Mains frequency with V AC	[Hz]	50 60
Electrical connection		Spring-loaded terminal
		Push-in
Degree of protection		IP54
Product weight	[kg]	40 75

Operating and environmental conditions			
Operating pressure	[bar]	4 10	
Ambient temperature	[°C]	+5 +40 indoors	
		-20 +40 outdoors	
Storage temperature	[°C]	-20 +60	
Relative humidity		Max. 50% at 40 °C	
Nominal altitude of use above	[m]	1000	
sea level			
Note on materials		Contains paint-wetting impairment substances	
		RoHS-compliant	

FESTO