

NR: Marketing_Bulletin 06-15_Product Launch EXD-SH
DATE: 30.01.2015
TO: All customers
FROM: Emerson Climate Technologies – **Alco Controls**

EXD-SH1/SH2 Controllers

Emerson Climate Technologies is pleased to announce the introduction of two new controllers
Introduction

EXD-SH1/2 are stand alone superheat and or temperature controllers. EXD-SH1 is intended for operation of one bipolar CX/EX/FX valve whereas EXD-SH2 is designed for operation of two independent bipolar CX/EX/FX valves. EXD-SH1/2 is ideal solution in conjunction with FX electronic expansion valves for commercial comfort and in conjunction with EX/CX series electrical control valves for refrigeration and specialty applications.

Application	Refrigerants	Valve
Air conditioning and heat pump	R22, R32, R134a, R407C, R410A	FX5 to FX9
Refrigeration	R22, R23, R32, R124, R134a, R407C, R410A, R404A, R507, R407A, R407F,	EX4 to EX8
	R744	EX4 to EX7 (60 bar) EX8 (45 bar) CX4 to CX7 (120 bar)



EXD-SH2 with EXD-M03

Features

- Main function

	Circuit 1	Circuit 2
EXD-SH1	Superheat or temperature control	
EXD-SH2	Superheat or temperature control	Superheat Control

- Other functions: Limitation of evaporating pressure (MOP), Low pressure switch, freeze protection and manual positioning of valve(s)
- Self-adapting superheat control function in conjunction with EMERSON FX5-9, EX5-8 and CX4-7 series
- For multiple refrigerants, including ultralow temperature refrigerant R23
- Modbus (RTU) communication
- Integrated keyboard with two lines display
- Monitoring of sensors and detection of sensor (ECN/PT5/6) /stepper motor wiring failures
- Low/high superheat alarm as well as other function alarms
- Electrical connection via plug-in type screw terminals included with controller and Micro Molex EXD-M05 (must be ordered separately)
- DIN rail mounting housing

Timing: Availability from Feb. 2015

Selection table

Type	Description	Part code number	
		Multipack (20 pieces)	Single pack
Controllers			
EXD-SH1	Controller for single refrigeration circuit	-	807855
EXD-SH2	Controller for two independent refrigeration circuits	-	807856
EXD-M03	Molex terminal with 3 meter wires	-	807 865
Temperature sensors			
ECN-N30	Temperature sensor with 3 meter cable	-	804 496
ECN-N60	Temperature sensor with 6 meter cable	-	804 497
ECN-Z60	Ultralow Temperature sensor with 6 meter cable	-	807865
Pressure transmitters: PT5/PT6 (7/16-20UNF connection)			
PT5-07M	Sensing pressure range -0.8 to 7 bar	802 350M	802 350
PT5-18M	Sensing pressure range 0 to 18 bar	802 351M	802 351
PT5-30M	Sensing pressure range 0 to 30 bar	802 352M	802 352
PT5-50M	Sensing pressure range 0 to 50 bar	802 353M	802 353
PT5-150D	Sensing pressure range 0 to 150 bar (1/4 NPTF)	802 379M	802 379
PT6-18M	Sensing pressure range 0 to 18 bar	802 361M	-
PT6-30M	Sensing pressure range 0 to 30 bar	802 362M	-
PT6-50M	Sensing pressure range 0 to 50 bar	802 363M	-
Pressure transmitters: PT5 (Brazing connection)			
PT5-07T	Sensing pressure range -0.8 to 7 bar	802 380M	802 380
PT5-18T	Sensing pressure range 0 to 18 bar	802 381M	802 381
PT5-30T	Sensing pressure range 0 to 30 bar	802 382M	802 382
PT5-50T	Sensing pressure range 0 to 50 bar	802 383M	802 383

Accessories

Type	Description	Part code number	
		Multipack (20 pieces)	Single pack
M12 Plug and cable for pressure transmitters PT5/PT6			
PT4-M15	1.5 m	804 803M	804 803
PT4-M30	3.0 m	804 804M	804 804
PT4-M60	6.0 m	804 805M	804 805
Uninterruptible Power supply			
ECP-024	Backup battery with two outputs for two controllers	-	804 558
K09-P00	Electrical Terminal Kit for ECP-024	-	804 560
EXD-PM	Super cap for only EXD-SH1 (two pieces of EXD-PM required for one EXD-SH2)	-	807 854

Available Documentations

- Technical bulletin
- Operating instruction
- Product presentation

Dimensions [mm]

