



Precise ultra-low additive injection system.

This system is ideal for mercaptan injection into LPG and other ultra-low dosage applications that are difficult to accomplish with conventional additive injectors. System control with audit trail is provided by Honeywell Enraf's Blend Pak™ 3000+ programmable control module (PCM) and the pump is powered by air pressure or nitrogen. A closed loop calibration system is provided for products like mercaptan that are non-desirable for atmospheric exposure.

Features

- Patented control algorithms to provide a true fuel/additive ratio comparison
- Monitors complete injection process with 7 programmable alarms
- Provides superior injection accuracy through cyclical injection
- Meter accuracy to 0.25%
- Easy to use non-venting calibrator
- 750 transactions stored internally with time, date, mercaptan injected and LPG loaded
- 4 security levels with authorization for 8 users. All parameter changes are stored in the security log
- Internal transaction log and security log storage capabilities enable true stand alone capability, to meet government requirements
- Compatible with all major presets and terminal automation systems
- Smith AccuLoad™, Brooks IMS™, Gate City and Modbus protocol
- 75 user definable operational parameters programmed with Handheld IR Controller
- All components compatible with process fluids associated with mercaptan use
- Pneumatic or nitrogen powered stainless steel dual seal plunger pump
- Up to 2600 PSI delivery pressure

Technical specification

Environmental	
Temperature	: -40 °F - 150 °F (-40°C - +40°C)
Humidity	: 5 to 95% without condensation.
Protection Class	: IP66
Approvals	: Explosion proof components rated for: Class I, Division 1, Groups C&D Class II, Groups E, F&G
Display	: 2 line by 14 character per line 5 by 7 dot matrix character format Liquid crystal, backlit
Electrical	
Voltage	: 110 / 230 VAC 50/60 HZ or 12 / 24 VDC powered
Inputs	: AC or DC input for product pulses
Outputs	: AC permissive output
Alarm relay contacts	: Form "C"
Comms	: RS232, RS422 and RS485
Mechanical	
Mounting	: All equipment mounted on panel for easy installation
Panel size	: 24" x 22" (610mm x 559mm)
Accessories	
Hand-Held IR Controller (P/N 10-31052)	

Calibration

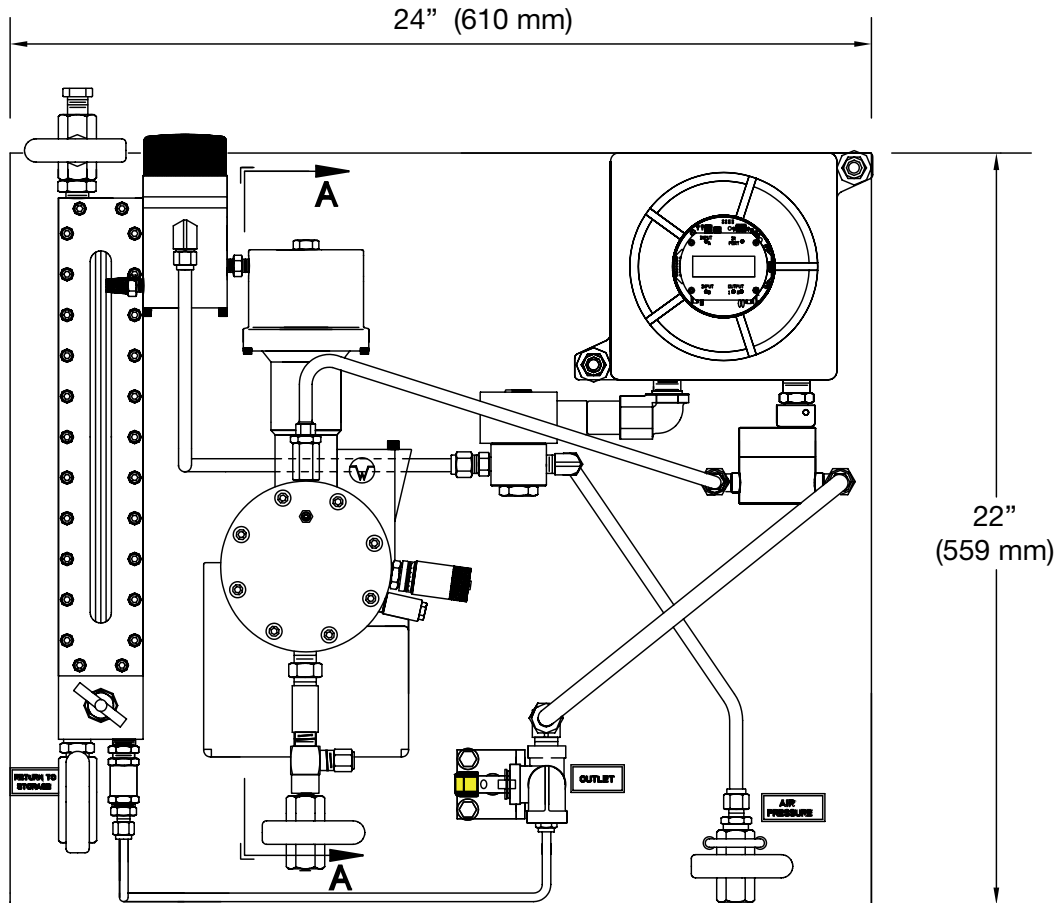
The Closed Loop Calibrator assures complete system integrity without atmospheric exposure of the product. Components include a high pressure clear glass indicator for volumetric measurement, pressure check valve on inlet connection for simulating load conditions due to system pressure, and a needle valve used for calibrator zeroing and draining. Calibration is quick and easy.

Identification Code

Pos 1, 2, 3 Product family									
1	0	-	Mono-Block II Multi-Pak Family of injector blocks						
Pos 4, 5 Type									
			3	1	Micro-Dose				
			9		Special				
Pos 6 Operating Voltage									
					1	120 VAC 50/60 Hz			
					2	240 VAC 50/60 Hz			
					9	Special			
Pos 7 Pump size									
						0	Small size pump (for maximum flow range consult factory)		
						1	Large size pump (for maximum flow range consult factory)		
						2	Standard size pump (2.25 GHP max.)		
						9	Special		
Pos 8 Controller									
							4	MP 3000 Plus controller	
							5	BP 3000 Plus controller	
							9	Special	

1	0	-	3	1	1	2	5	Typical identification code
1	0	-						Your identification code

Dimensional drawing



For More Information

To learn more about Honeywell Enraf's solutions, contact your Honeywell Enraf account manager or visit www.honeywellenraf.com.

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