



General Description

The ProPAC5 is a modern, multi-purpose, microprocessor based electronic injector designed to inject a broad range of fuel additives and dyes. Common applications include the injection of fuel additives, petroleum dyes, ethyl mercaptan, marker additives, and emission reduction additives used at product terminals, refineries, pipelines, and marine terminals. The ProPAC5 can be controlled by several methods:

- An external pacing signal (main product flow rate) from an electronic preset, pulser, TAS, or PLC.
- Internal pacing signal (either time, known main product volume to be treated, or other non-pulse based input).

The ProPAC5 also incorporates a number of user configurable alarms to ensure the accuracy of the injection process.

The ProPAC6 utilizes components that are approved for use in hazardous area locations.



ProPAC5

Design Features

- **Two flow meter sizes accommodate a wide flow range**
- **RS-485 serial communications accommodates numerous industry standard protocols**
- **Can be controlled by either an external or internal pacing signal**
- **RoHS compliant (lead-free)**
- **Power 120 VAC/60 hZ. (standard), 220 VAC, 12 or 24 VDC power (optional)**
- **Multi-language capable including English, Spanish, French & Italian**
- **Metering hardware & control software may be modified for unique customer applications**
- **Over 11,000 ProPAC & MiniBLOCK injectors installed worldwide**
- **High quality, accuracy and reliability**

Model 7718

For dye, marker, ethyl mercaptan and other low dosage fuel additives

Flow rate 0.03 - 0.3 GPM (0.12 - 1.2 LPM) @ 1cSt

Maximum operating pressure 300 PSIG

Maximum differential pressure 145 PSIG

Accuracy 0.25-0.50% of flow

Nominal resolution 6,000 PPG / 1585 PPL

Model 7738

For most gasoline & diesel additives

Flow rate 0.3 - 3.0 GPM (1.2 - 12 LPM) @ 1cSt

Maximum operating pressure 300 PSIG

Maximum differential pressure 145 PSIG

Accuracy 0.25-0.50% of flow

Nominal resolution 2,600 PPG / 687 PPL

Technical Data

Power	120VAC/60 hZ., 50 watts (standard) 220VAC, 12VDC or 24VDC, 20 watts (optional), DC unit must be ordered with DC power supply
Solenoid	ASCO, 2-way, direct acting, normally closed, 316 SS, UL listed, explosion-proof, approved for hazardous locations. Standard product includes Chemraz and Teflon elastomers
Meter Sensor	Hall-Effect type, non-intrusive, 3-wire, 5-30 VDC, or Reed Switch, non-intrusive, 2-wire, 5-30 VDC. All sensors rated for Class 1, Div. 1 Group D hazardous areas. (ATEX version also available, see ProPAC6 Product Bulletin)
Mechanical	Reference MiniBLOCK Product Bulletin or other product specifications when custom metering hardware is utilized
Display	2-line, 16 character, multi-language alpha-numeric, vacuum fluorescent
Serial COM Protocol	RS485 multi-drop, selectable baud rates, includes lightning & surge protection ASCII-based
Memory	Non-volatile
Programming	Via RS-485 serial communication, 4-button keypad, or Pocket PC using IrDA port (optional)
Event Log I/O	1,000 + transactions (optional) User configurable, industry standard solid state relays, optically isolated & fuse protected
Recipes	Programmable up to 8 using two block configuration
Clean Start	Main product line flushing feature typically used when injecting dye additives
Product Pulse Signal	DC Input (count speed to 15 kHz.)
ARM Signal	DC Input
Load Permissive	Output Module AC or DC with appropriate output module installed
Alarm	Output Module AC or DC with appropriate output module installed
Confirmation	Output Module AC or DC with appropriate output module installed
Safety	Solid state design, no open contacts. Product is rated for Class 1, Div. 1 Group D hazardous areas. (ATEX version also available, see ProPAC6 Product Bulletin)
Temperature	Ambient operating range of -40 C to 60 C.

Product Ordering

Model Number	Solenoid Seat Material	Voltage/Hz.	Meter Gears	Configuration	Enclosure
7718	0 = Chemraz	0 = 115 / 60	0 = SS w/ Tungsten	1 = 1 PAC	1 = UL / CSA
7738	1 = Teflon	1 = 230 / 60		2 = 2 PAC	
	2 = Viton	2 = 230 / 50			
		3 = Other			
Example: PP5 7738, Chemraz, 115v, SS Gears w/ Tungsten, 1-PAC, UL Enclosure (i.e. PP5-7738-0-0-0-1-1)					

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