

ProPAC

“Smart” Additive and Dye Injector System

MARKET

Energy Infrastructure

AVAILABLE

Worldwide

The Chemtec ProPAC is a “smart” injection system consisting of a MiniBLOCK injection block and a PLC-based injection controller/user interface.

The ProPAC controller utilizes multiple inputs/outputs to control a wide variety of additive applications. Multiple alarms are also available to ensure the highest injection accuracy. Additionally, the ProPAC provides remote monitoring capability via an RS-485 or Ethernet modbus communications interface.



ProPAC “smart” injection system

KEY DESIGN FEATURES

- Four High Speed Counters
- Twelve DC Inputs
- Six Relay Outputs
- Color User Interface
- Extensive Alarm Functionality and Diagnostics
- Can control up to 4 MiniBLOCK's injecting into same main product line (requires upgraded program, I/O modules, and enclosure)
- Time based micro precision injection (.3 cc per injection)

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 2,900 PPG / 687 PPL

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 6,700 PPG / 1585 PPL

TECHNICAL DATA**OPERATING TEMPERATURE**

-10 C to +60 C

ELECTRICAL

Classification Class I Div I standard configuration - Class I Div II custom configurations

Digital DC Inputs

Inputs 12 including 4 configurable High Speed Counter inputs
Input Voltage Range 12 VDC / 24 VDC
Absolute Max. Voltage 35 VDC Max.
Input Impedance 10 k Ω
Input Current 0.3 mA - 0.8 mA
Max Upper Threshold 8 VDC
Min Lower Threshold 3 VDC
OFF to ON Response 1 ms
ON to OFF Response 1 ms
HSC Max. Switching Rate 10 kHz Totalizer/Pulse, Edges 5 kHz Frequency/Pulse, Width 2.5 kHz Quadrature

Digital Relay Outputs

Outputs 6
Max. Output Current 3 A at 250 VAC, resistive
Max. Total Output Current 5 A continuous
Max. Output Voltage 275 VAC , 30 VDC
Max. Switched Power 1250 VA, 150 W
Max. Voltage Drop @ Rated Current 0.5 V
Max. Switching Rate 300 CPM at no load 20 CPM at rated load
Type Mechanical Contact
Response Time One update per ladder scan plus 10 ms

MECHANICAL

Please refer to the MiniBLOCK Installation and Maintenance Field Guide