

Quick and Convenient On-line Vapor Measurement



ON-LINE REID VAPOR PRESSURE MONITOR

PSPI
by **PAC**

ON-LINE REID VAPOR PRESSURE MONITOR



The PSPI Reid Vapor Pressure Monitor is an on-stream process monitor for measuring the RVP of blended fuels, distillates and other multiple component hydrocarbon fuels. The 44800 directly measures vapor pressure—no RVP correction

necessary! With its unique engineering and design, the need for auxiliary air conditioning, cooling, atmospheric drains and sample recovery systems has been eliminated. And the average cycle time is still less than six minutes! Operation of the monitor is completely

customizable with user-programmable measurement cycles, units and alarms. The 44800 Reid Vapor Pressure Monitor is completely microprocessor controlled with self-diagnostic capabilities, making it economical and simple to operate and maintain.

ADVANTAGES

- Measures RVP from 1 to 22 psi
- Fast Analysis with ultrasonic sample throughput
- Excellent Repeatability of ± 0.05 psi
- Integral heating/cooling system
- No need for auxiliary air conditioning or coolant systems
- Monitor automatically returns sample to process stream
- Reads out directly in RVP units

APPLICATION RANGE

Typical applications are locations where fuel production needs to be optimized while complying with stringent RVP requirements.

The 44800 Reid Vapor Pressure Monitor reduces costly product giveaway at the blender area.

STANDARD METHODS

In correlation with:

- ASTM D323
- ASTM D4953
- ASTM D5191
- ASTM D6378
- EN 12
- EN 13016
- IP 69
- IP 394
- IP 402
- IP 481
- ISO 3007



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PSPi

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SPECIFICATIONS

General Information	
Ordering Information	44800 AT - 115 RVP – Reid Vapor Pressure 100-120 VAC 44800 AT - 230 RVP – Reid Vapor Pressure 220-240 VAC
Standard Test Method	In correlation with: • ASTM D323, ASTM D4953, ASTM D5191, ASTM D6378, • EN 12, EN 13016 • IP 69, IP 394, IP 402, IP 481, ISO 3007
Operation	
Response Time	Typically 1 – 6 minutes. Cycle time varies with process operating conditions. Application dependant
Application Range	
Measurement Ranges	1 – 22 psi
Repeatability	±0.05 psi (±0.0035 bar)
Sample Conditions	
Sample Phase: Liquid	Sample Return Pressure: 2 to 25 psi below inlet pressure
Sample Inlet Pressure: greater than the highest expected vapor pressure, but less than 100 psig (6.8 bar); 25 psig (1.7 bar) minimum	Sample Temperature: 2° to 49°C (35° to 120°F)
Supply & Connections	
Instrument Air	Clean, dry and filtered air at 80 to 100 psi
Power Requirements	
Voltage	100-120 or 220-240 VAC / 50- 60 HZ
Power	1000 W
Interface Specifications	
Remote Standby	Terminals available for customer-supplied dry contact control of instrument. Allows control room to take monitor "off-line".
Automatic Validation Check	Terminals available for dry contact or user-selectable intervals. (optional)
Analog Output	Isolated 4-20 mAdc RVP value
Alarm Relay	4 SPST fail-safe alarm relays; High RVP, Low RVP, Critical, Warning
Digital Outputs	Modbus over RS-232C, RS-485, RS-422, Ethernet
"Come Read" Contact	Dry relay contact for end of measurement cycle notification. (optional)
Environmental Conditions and Physical Specifications	
Operating temperature	5° to 38°C (41° to 100°F); weather protection required; no direct sunlight
Altitude	Sea level to 2,000 meters
Safety Characteristics	
ATEX	IIIG Exd IIB+H2 T4 GB, IP66
USA/Canada	Designed to meet Class 1, Div 1, Groups B, C & D Type 4, 4X, 12 (certification on request)
CE	Compliant
Physical Specifications	
Dimensions	71x34x30 inches (uncrated) ; 78x38x34 inch (crated)
Weight	385 kg (850 lbs) (uncrated) ; 454 kg (1000 lbs) (crated)

Continuing research and development may result in specifications or appearance changes at any time



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