

Measure Flash Point of Hydrocarbon Products Quickly,
Accurately, and Completely On-Line!



ON-LINE FLASH POINT MONITOR

PSPI
by **PAC**

ON-LINE FLASH POINT

The PSPI 45607 Flash Point Monitor is an on-stream process monitor for measuring flash points of liquid fuels over a range of 10° to 121° C (50° to 250° F).

The analyzer robust design and measurement principle (no catalyst used in the measurement) delivers reliable

measurements over time independently of fuel's sulfur content.

The Flash Point analyzer is completely microprocessor controlled with self-diagnostic capabilities, making it economical and simple to operate and maintain.



ADVANTAGES

- Designed to measure Flash Point from 10°C to 121°C
- No catalyst used, performance is not impacted by sulfur content in the measured stream
- Microprocessor-controlled instrument with self-test and diagnostic capabilities
- Analyzer configuration can be changed without opening the explosion proof enclosure

APPLICATION RANGE

Flash Point is one of the key final products specifications in the refineries. By having an online monitoring solutions refineries can optimize plants profitability while at the same time meeting quality requirements

STANDARD METHODS

In correlation to:

- | | |
|-------------------|--------------------|
| Tag Closed Cup | Abel |
| • ASTM D56 | • DIN EN ISO 13736 |
| | • IP 170 |
| Pensky-Martens | |
| • ASTM D93 | |
| • DIN EN ISO 2719 | |
| • IP 34 | |
| • DIN 51755 | |



solidpartners proven solutions

U.S.A.

BP, LP | 8824 Fallbrook Drive | Houston, Texas 77064
T: +1 800.444.TEST | O: +1 281.940.1803 | F: +1 281.580.0719
sales.usa@pacpl.com | service.usa@pacpl.com

FRANCE

BP 70285 | Verson | 14653 CARPIQUET Cedex
T: +33 231 264 300 | F: +33 321 266 293
sales.france@pacpl.com | service.france@pacpl.com

GERMANY

Badstrasse 3-5 | P.O.Box 1241 | D-97912 Lauda-Königshofen,
T: +49 9343 6400 | F: +49 9343 640 101
sales.germany@pacpl.com | service.germany@pacpl.com

SINGAPORE

61 Science Park Road | #03-09/10 The Galen
Singapore Science Park III | Singapore 117525
T: +65 6412 0890 | F: +65 6412 0899
sales.singapore@pacpl.com | service.singapore@pacpl.com

NETHERLANDS

P.O.Box 10.054 | 3004 AB Rotterdam
Innsbruckweg 35 | 3047 AG Rotterdam
T: +31 10 462 4811 | F: +31 10 462 6330
sales.netherlands@pacpl.com | service.netherlands@pacpl.com

RUSSIA

Shabolovka Street | 34, Bldg. 2 | 115419 Moscow
T: +7 495 617 10 86 | F: +7 495 913 97 65
sales.russia@pacpl.com | service.russia@pacpl.com

CHINA

Room 1003, Sunjoy Mansion | No. 6 RiTan Rd.
Chao Yang District | Beijing 100020
T: +86 10 650 72236 | F: +86 10 650 72454
sales.china@pacpl.com | service.china@pacpl.com

INDIA

1508 | Dev Corpora | Pokhran Road No.1
Eastern Express Highway | Thane (W) - 400 601
T: +91-22-6700 4848 | F: +91-22-4228 4950
sales.india@pacpl.com | service.india@pacpl.com

MIDDLE EAST

A1 Quds Street, A1 Tawar road | LIU#H13 Dubai Airport Freezone
Near Dubai Airport (terminal 2) | P.O.Box #54781 | Dubai, UAE
T: +971 04 2947 995 | F: +971 04 2395 465
sales.middleeast@pacpl.com | service.middleeast@pacpl.com

SOUTH KOREA


#621 World Vision Building | 24-2, Youido-dong
Seoul 150-010
T: +82 2785 3900 | F: +82 2785 3977
sales.southkorea@pacpl.com | service.southkorea@pacpl.com

THAILAND

26th Floor, M. Thai Tower | All Seasons Place
87 Wireless Road | Lumpini, Phatumwan | Bangkok 10330
T: +66 2627 9410 | F: +662627 9401
sales.thailand@pacpl.com | service.thailand@pacpl.com

PAC Authorized Representatives are also located in most countries worldwide. For more information visit www.pacpl.com

SPECIFICATIONS

General Information		
Ordering Information	45607 AT - 115: Process Flash Point 100-120 VAC 45607 AT - 230: Process Flash Point 220-240 VAC	
Standard Test Method	Correlates to ASTM D56, ASTM D93, DIN EN ISO 2719, IP 34, DIN 51755, DIN EN ISO 13736, IP 170	
Response Time	Typically 1 – 7 minutes application dependent	
Measurement Ranges	10° to 121°C (50° to 250°F) ¹	
Standard Test Method	Correlates to ASTM D 56 and D 93	
Accuracy	Repeatability +/- 1.0°C	
Sample Conditions		
	Sample Phase: Liquid	Sample Return Press.: Atmospheric pressure
	Sample Flowrate: 30 to 50ml/minute	Sample Temperature: At least 15°C (59°F) below expected lowest flash point temperature (cooling may be required in sample conditioning system)
	Sample Inlet Pressure: 5 - 10 psig	Sample Viscosity: No greater than 220cSt at 38 °C (100 °F)
Supply & Connections		
Instrument Air	Clean, dry and filtered air: 600-1000 cc/minute and regulated at 10 psig	
Power Requirements		
Voltage	100-120 or 220-240 VAC (+/-10%), 50/60 Hz, single phase	
Power	500 W	
Interface Specifications		
Remote Standby	Terminals available for customer-supplied dry contact control of instrument. Allows control room to take monitor "off-line"	
Analog Output	Isolated 4-20mA for Flash Temperature (standard) Isolated 4-20mA for Sample Temperature (optional)	
Alarm Relay	SPST fail-safe alarm relay	
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		
Operating temperature	0° to 40°C; weather protection required; no direct sunlight	
Altitude	Sea level to 2,000 meters	
Safety Characteristics		
ATEX/IECEX	 II 2 G Ex d IIB+H ₂ T4 GB, IP66	
USA/Canada	Class 1 Div 1 Group B, C, D, T4 Type 13,4, 4x and AEx d IIB+H2 (CSA)	
CE Compliant		
Physical Specifications		
Dimensions	48x24x13 inches (uncrated) ; 54x29x17 inch (crated)	
Weight	250 lbs (uncrated) ; 350 lbs (crated)	

¹ Consult PAC for other temperature ranges
Continuing research and development may result in specifications or appearance changes at any time

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