

# PRODUCT DATA SHEET

## IPS-4 NDIR Analyzer

### Infrared-based analyzer with integrated sampling conditioning

Finding the right on-line process analyzer for your application can be a time-consuming experience. Users are looking for cost-effective, low-maintenance solutions for gas and liquid analysis.

AMETEK has been offering solutions to meet your specific application needs for well over four decades. The IPS-4 NDIR analyzer, built on our field proven IPS-4 UV-VIS platform, offers unparalleled reliability, and enhanced analog and digital connectivity.

With an integrated sample conditioning system, the IPS-4 analyzer is easy-to-use and is durable enough to be installed in outdoor, wash-down, hazardous, and environmentally harsh locations. While the IPS-4 can be mounted in demanding environments, it still possesses user interfaces expected in production environments.

An interactive display and interface is included with every IPS-4 for local access. Remote access is also available, through both serial and Ethernet connections.



### KEY BENEFITS

- Multiple gas capability
  - Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), water (H<sub>2</sub>O) and more
- Analog and digital connectivity
  - Modbus, ethernet and web browser-based interface
- NEMA 4 enclosure houses all components
  - Designed for outdoor installation; no exposed components
- Fully integrated sample conditioning
  - No need for site integration

### APPLICATIONS

- Water in Acetic Acid
- Water in dehydration systems
- CO<sub>2</sub> in hydrocarbons

### KEY MARKETS

- Natural gas
- Refining
- Petrochemical

## PERFORMANCE SPECIFICATIONS

<b>Analyzer range</b>	ppm to 100% depending upon specific application
<b>Linearity (independent)</b>	<1% full-scale range
<b>Measurement accuracy</b>	<+/-2% full-scale range (application-specific)
<b>Repeatability</b>	<1% full-scale range (application-specific)
<b>Stability</b>	0.5% of full-scale range
<b>Zero drift</b>	<1.0% of full-scale range over 24 hours
<b>Response time</b>	<2 seconds photometric response, <30 seconds to T90
<b>Components</b>	Up to five components can be measured
<b>Inputs</b>	Two non-isolated analog inputs (0-5V, 0/4-20mA) 2 optically isolated discrete DC inputs 22 key piezoelectric keypad
<b>Outputs</b>	265 x 64 pixel vacuum fluorescent display with multi-lingual capability (language options include English, Spanish, French, German, Russian. This is a partial listing. Contact AMETEK for more information) Two isolated analog outputs (0/4-20 mA) (Two additional analog outputs optional) Eight dry relay contacts (NO, 100VA, 240 V) RS485 isolated (supports MODBUS RTU) RS232 non-isolated Fast Ethernet (IEE802.3)
<b>Sample system limits</b>	Sample pressure: Up to 100 barg (1450 psig) for some configurations Temperature: Heater capable of maintaining 150°C (300°F)
<b>Utility requirements</b>	Electrical: 120 or 240 VAC (105-132 or 209-264 VAC), 47 to 63 Hz Power consumption: <700 W with sample heater <300 W without sample heater
<b>Instrument air/nitrogen</b>	4.8-6.9 barg (70-100 psig) (valve actuation)
<b>Environmental requirements</b>	Ambient temperature: -20° to 50°C (-4° to 122°F) Ingress protection: IP65 and NEMA 4X Enclosure Material: 304 stainless steel (316SS available)
<b>Physical dimensions</b>	Typical model: (W x H x D): 78 cm x 53 cm x 30 cm (30.7" x 20.9" x 11.8") Weight: 66 kg (145 lb) for base system
<b>Approvals and certifications</b>	Meets various ATEX, CEC & NEC, IEC-EX, Korean and Russian hazardous area requirements. Consult AMETEK for specific details.

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