

Fully Integrated Process FT-NIR Analyzer for Gasoline and Gasoil Final Product Blend Optimization



FTPA2000-460 Series Process Analyzer for Hydrocarbon Finished Product Blending Applications

Includes:

- Process FTIR FTPA 2000-HP460 Series single cell analyzer, Computer with FTSW100 software, touch screen, hazardous area approval, temperature controlled FTIR analyzer sample system, connection to DCS via MODBUS or OPC
- Manual sample injection facility
- Includes Pre-calibrated Models for RON, MON, %Aromatics and %Benzene (Finished Product Gasoline) – see below for detailed specification
- Turn-key Calibration and Modeling services on request at extra cost. See Price List for selection
- Requires gasoline or gasoil fast loop sample conditioning system and wash/reference and validation fluid system. See Price List for selection.
- Requires startup plan sold separately
- Additional application and project support, training and performance audit services available on request
- Performance in accordance with or better than ASTM values for repeatability and reproducibility

FTPA2000-HP460 Process FTIR Analyzer for Hydrocarbon Streams

NIR optics covering the 3800 cm^{-1} to 12,000 cm^{-1} range, Single cell, Single Fluid Switching Kit.

Includes:

- Fully integrated NEMA 3 (IP54) ATEX Category II 2 G (EEx p d [ib] ib IIB+H2 T4) or Class 1 Division 2 CSA(C,US) , hazardous area classification. 120/240 VAC 50-60Hz
 - i) Electronic Enclosure compartment with CANBus I/O, Ethernet Communications, Temperature Controller for Sample Cell cabinet, System Alarms
 - ii) Spectrometer Compartment with Temperature controlled Fourier Transform Spectrometer, Data processor includes FTSW100 Software pre-configured, local data storage. GRAMS/LT (for spectra visualization). DCS communication through MODBUS, OPC
 - iii) Internal Sample Cell Compartment:
 - Temperature controlled at 25°C.
 - Process/Wash and Reference fluid inputs, with integrated Fluid Switching panel, double-block-and-bleed switching valves. Additional Protofuel input available as option.
 - Fluid switching panel has flow control, low-flow sense switches for detecting low sample flows, reverse Nitrogen flow for cell blow-down and counter-current sample heat exchanger for additional temperature stabilisation
 - Option for Dual Cell Configuration (FTPA2000-HP50A)
 - iv) Custom documentation and system drawings
- Installation and start-up sold separately
- Basic system alarms are:
 - Analyzer (Hardware)
 - Maintenance (Reference failure)