AMP CHEROKEE

FTIR Mobile Systems

CONTINUOUS MONITORING SYSTEM FOR

PROCESS MEASUREMENT & EMISSIONS COMPLIANCE

PERMANENT | TEMPORARY | RENTAL

FTIR Mobile Systems

CONTINUOUS MONITORING SYSTEM FOR
PROCESS MEASUREMENT & EMISSIONS COMPLIANCE

AMP-Cherokee's FTIR Mobile System is a fully automated rental CEMS platform for emissions monitoring and process measurement.

It features the MAX ASC-10 automated samplng console. This system supports multiple analyzer configurations, built-in solenoid and temperature/heater control, analog I/O and maintenance flagging.

With optional DAS integration, the FTIR Mobile System can operate as a complete, standalone emissions monitoring solution tailored for your specific applications.

Customizable component configurations available for specific applications.

A DAS with full DCS connectivity is available for DCS or datalogger .

FEATURES

MAX ASC-10 Software Control Capabilities
- Controls sample pump flow rate and power
- Operates calibration gas solenoids for automated calibrations
- Accepts and outputs analog signals (4–20 mA)
- Monitors probe and heated line temperatures
- Actuates software alarms
- Automatically shuts down sample pump when temperatures fall too low
- Built-in hardware switch flags data during maintenance
- Built-in ethernet switch provides customer integration / Modbus

Data Acquisition System (DAS) Options
- Standalone FTIR CEMS without DAS
- High-performance PC to run DAS and MAX software simultaneously
- Datalogger w/ Trend Software

Rack Specifications
- Power Requirement: Single-phase, 240V, 60A
- Temperature/Heater Control: supports one probe and two 100-ft heated sample lines simultaneously (120V powered)

Solenoid and Gas Control
- Built-in flow control via 8 solenoids:
(seven for calibration gases & one for zero gas)

Analyzer Selections
- MAX-IR FTIR (standalone)
- MAX-IR FTIR w/ TOM Thermal Oxidizer
- MKS FTIR (requires extended dewar)

Optional Equipment
- Brand Gaus O_2 Analyzer
- Flame Ionization Detector (FID)

MAX ASC-10 Sample and Flow Control
- Continuous sample flow
- Sends calibration gas to the probe while sampling
- Built-in spiking capability for QA checks and calibrations

Alternative Monitoring Configurations
The Mobile FTIR System can be configured as a dry extractive CEMS using for NOx, SO_2, CO, CO_2, and O_2, analyzers with the following:
- External gas conditioning system
- Data routing to either a DAS or datalogger

ACCESSORIES




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AMP-Cherokee's rental Mobile FTIR System is a fully integrated, CEMS platform. It features the MAX ASC-10 automated samplng console. The Mobile FTIR supports multiple analyzer configurations, built-in solenoid and temperature/heater control, analog I/O and maintenance flagging.

With optional DAS integration, it can operate as a complete, stand-alone emissions monitoring solution tailored for various applications.

Rack Specifications
- Rack Size: 29U
- Power Requirement: Single-phase, 240V, 60A
- Temperature/Heater Control: supports one probe and two 100-ft heated sample lines simultaneously (120V powered)

Solenoid and Gas Control
- Built-in flow control via 8 solenoids:
(seven for calibration gases & one for zero gas)

Analyzer Selections
- MAX-IR FTIR (standalone)
- MAX-IR FTIR w/ TOM Thermal Oxidizer
- MKS FTIR (requires extended dewar for CEMS use)

Optional Equipment
- Brand Gaus O_2 Analyzer
- Flame Ionization Detector (FID)

MAX ASC-10 Integrated Sampling and Flow Control
- Continuous sample flow
- Sends calibration gas to the probe while sampling
- Built-in spiking capability for QA checks and calibrations

MAX ASC-10 Software Control Capabilities
- Controls sample pump (flow rate and power)
- Operates calibration gas solenoids for automated calibrations
- Accepts and outputs analog signals (4–20 mA)
- Monitors probe and heated line temperatures
- Software alarms
- Automatic shutdown pump when temperatures fall too low
- Built-in hardware switch for flagging data during maintenance
- Built-in ethernet switch for customer integration/ Modbus

Data Acquisition System (DAS) Options
- Standalone FTIR CEMS without DAS
- High-performance PC to run DAS and MAX software simultaneously
- Datalogger w/ Trend Software

Alternative Monitoring Configurations
The Mobile FTIR System can also be configured as a dry extractive CEMS using individual analyzers for NOx, SO_2, CO, CO_2, and O_2, with the following:
- External gas conditioning system
- Data routing to either a DAS or datalogger