

nSTREAM 6000-TCD

% and ppm analysis using
Thermal Conductivity Detector



The new ISATEC n STREAM 6000-TCD Gas Analyser is based around the unrivalled **Thermal Conductivity Detector (TCD)**. This versatile and robust detector design is ideal for permanent gas analysis and its universal applicability ensures that it is both *cost effective and reliable*. The temperature regulated TCD allows continuous monitoring of the gas stream and stability is guaranteed. Through the additional use of solenoid valves, drift can be eliminated as a constant reference to Zero gas is utilised for greater accuracy.

Using *the large colour interactive touch screen*, this analyser is straightforward to use and set-up with all functionality easily accessible and navigable with minimal training required.

The precise results obtained from this analyser can be transmitted via an array of communication modules such as: 4-20mA (2 off), mV Signal, USB (2 off) and VGA outputs. Active 4-20mA, Ethernet, RS-232 and RS-485 outputs are also available as optional extras. This allows the analyser to be integrated seamlessly into all analytical infrastructures worldwide.

The modular design with a drop-down front panel for easy access to the electronics allows for trouble-free maintenance and servicing. It is both *cost effective and reliable* with a low cost of ownership due to the low gas and power consumption.

The ISATEC Engineering Team will custom design and test an analytical solution to meet your application and all systems are designed with volume optimised pipe work using only 1/8" Swagelok® fittings. Therefore, this robust system ensures an excellent stability, sensitivity and a long working life.

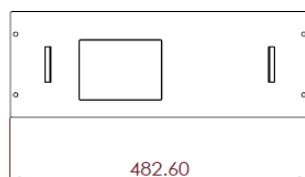
KEY FEATURES:

- Thermal Conductivity Detector
- Detector variations designed and built to spec
- Ideal for Binary Gas Mixtures or Pure Gases
- Fast Detector Response: < 30 seconds (T90)
- Long Term Stability & Sensitivity
- Large Colour 6.5" LCD Touch Screen
- Fully Automated use
- Integrated Configurable Alarms System with Alarm Record
- Added Sample Flow Alarm
- Integrated Diagnostics System
- Flow Sensors
- Voltage free contacts for switching in calibration gas inputs externally
- Auto-Calibration Routine with Calibration Record
- Internal storage of results up to 24 months and data trending via PC
- 2 x 4-20mA, 1 x mV Signal, VGA & USB Outputs
- Active 4-20 mA option
- Increased Connectivity with Ethernet, RS-232 and RS-485 options
- Modular System Design & Drop-Down Front Panel for easy maintenance and servicing
- Cost Effective and Reliable
- Economical Power Usage & Gas Consumption
- Restore Factory Settings function for peace of mind

TECHNICAL SPECIFICATIONS

Technology	Thermal Conductivity Detector (TCD)
Typical Ranges	0.01 – 100% / 0.001 – 10% / 0 – 1000 ppm
Analyser Configurations	6000-53 (%) 6000-54 (500 ppm to low %) 6000-55 (2 -500 ppm)
Limit of Detection	Application dependent
Maximum Resolution	1 ppm
Zero Drift	± 5 ppm when used with Auto-Zero function (0 -1000 ppm range)
Response Time	< 1 second to 90 seconds (Application Dependent)
Warm up time	1 minute to several hours (Application Dependent)
Interface	6.5" Industrial Grade Colour Touch Screen Control
Outputs / Communication Modules	2 x 4-20mA outputs (Isolated) 1 x mV Signal output 1 x RS-232 2 x USB VGA RS-485 (Modbus/Profibus) - optional Ethernet - optional 1 x 4-20mA output (Active) - optional
Alarms	7 x Voltage Free Alarm Relay Contacts (including one for sample flow) Alarm Record
Calibration	Auto-Calibration Routine Voltage Free contacts for switching in the calibration gas inputs externally Calibration Record
Data / Results	Data Trending via PC connection and 24 months internal storage
Gas Connections	1/8" Swagelok® Fittings
Zero Air	300mL/min
Zero Gas Requirements	20 – 200 mL/min (Application Dependent)
Maximum Inlet Pressure	200 kPa (2 Bar)
Minimum Inlet Pressure	1.5 kPa (0.015 Bar)
Operating Temperature	5° to 40°C
Power Supply	100 – 120 VAC or 220 – 240 VAC, 50/60 Hz
Max Power Consumption	≤300 Watts
Dimensions	428 (W) x 511 (D) x 177(H) – 4U – 19" Rack

FRONT VIEW



SIDE VIEW

