MCP - 200A

MICROSPEC

AN INFRARED CONCENTRATION MONITOR

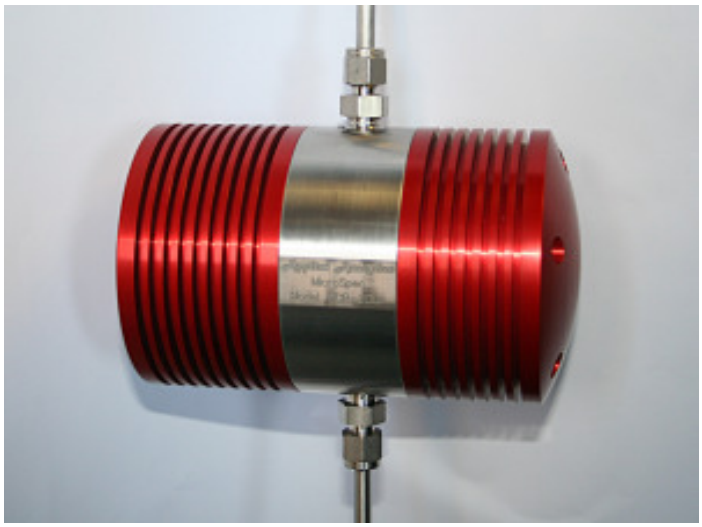
The Microspec is a direct in-stream concentration monitor.

The Microspec is designed to monitor low and high concentrations of water in various solvents, CO and CO2 gas, as well as other traditional IR applications.

The Microspec consists of an IR light source, a detector with a filter that isolates a specific IR wavelength, a thermistor to measure temperature, and flow cell.

The electronics board in the Microspec controls a dual pyroelectric detector with individual optical filters for the analytical line. The light source is a subminiature tungsten lamp. The output is a 4-20mA signal proportional to the concentration of water or other chemical to be monitored.

The Microspec can be operated in two different configurations, as a stand alone device with its dedicated controller, or as part of an integrated system where an industrial computer that is controlling other AAI systems such as a UV analyzer and sampling system also controls the integrated Microspec. Ideal for applications that require both UV and IR detection such as H_2S and CO_2 for example.



Features

- Ideal for monitoring **PPM** level **WATER** in various solvents
- In stream quantitative measurements
- Contains no moving parts and extremely robust allowing for installations in process stream environments
- Replaces analyzers such as process spectrometers in the process plant

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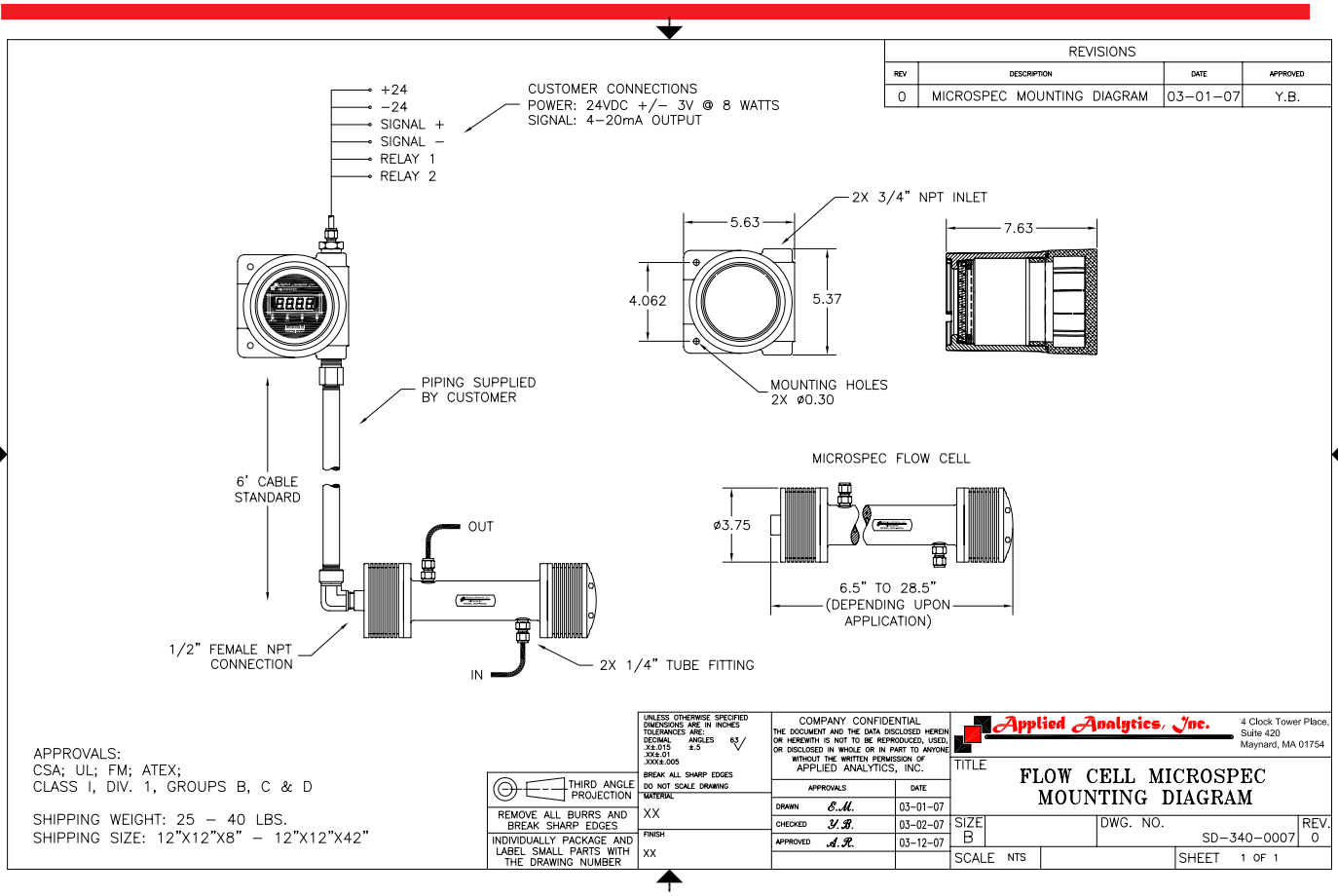

Specifications

Detection	IR Photometry (2 to 10 Micron)
Wetted parts materials	SS, Viton, Sapphire
Casing/Enclosure Material	Cast Aluminum 704/50
Operating Temperature	Enclosure: -20° to 50°C; flow cell: 1 to 100° C
Operating Pressure	Flow cell 0-50 bar
Storage Temperature	-40°C to 85°C
Stability	2% of reading/ 24 hours
Accuracy	±2% full scale
Repeatability	±2% full scale
Electrical	24 V DC 100 mA
Output	4 – 20 mA 700 Ohm load galvanically isolated
Connections to process	1/4" tube fittings
Material of construction	Stainless steel body and sapphire window

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