

DID YOU KNOW?

FAQs ABOUT CALORVAL ANALYZERS

the CalorVal is our btu analyzer for directly measuring total heating value

how big? 16" h x 12" w x 8 ½" d, 40 lbs

operation range? standard range is 0-1300 BTU/scf (2500 BTU/scf option)

outputs? 6 relays (high, low, fault, horn, service needed & calibration-in-progress), 4-20mA output tracks the reading & digital output via RS-485 Modbus, half duplex allows access to entire menu system

hazardous area classification? flame cell: class I div 1 atmospheres, overall assembly: class I div 2 locations. class I div 1 (optional)

outdoor installation? NEMA 4X option



utilities required? hydrogen, compressed air, compressed nitrogen, pure methane span gas, 120 VAC power (230 VAC option)

utility consumption specs? hydrogen: 40 liters per day, compressed air: 0.8 liters per minute, nitrogen: 25 liters per minute

why h2 fuel & not the sample stream as fuel source? h2 is a clean fuel with a known BTU value & readily available in pure form, where as the stream composition is not constant

why compressed n2 for the aspirator gas? nitrogen is used to remove oxygen from under the cover to eliminate the risk of an explosion in case of a fuel line or sample line leak



which approvals?

FM (standard), FMc & ATEX (optional)



how many installations?

over 125 units worldwide (as of 8/17)



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how is the sample brought into the analyzer? a nitrogen driven aspirator (venturi effect) is used to bring in and exhaust the sample

what are the sample wetted parts? flame cell is made up of 3 hard coated (MIL-A-8625 type III class 1) anodized aluminum blocks, all tubing is stainless steel & all tube fittings are dual ferrule stainless steel

is the sample capillary protected? sample capillary is protected upstream by the flame arrestor/filter

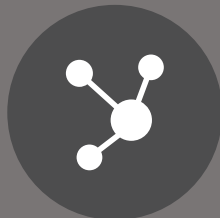


ANALYZER SAMPLE PICK-UP PRESSURE

	0-15" wc	15" wc - 5 psig	>5 psig
sample & exhaust at the same pressure	no sample pressure regulator required	no sample pressure regulator required	not a valid option must exhaust to ambient
sample pressurized & exhaust to ambient (0 psig)	no sample pressure regulator required	pressure reducing valve required (PRV034)	pressure reducing valve required (PRV034)

read the wobbe index?

can only make a calorific value (BTU/scf) measurement



is it heated?

fully heated to 120°C to prevent condensation & minimize downtime due to clogging

