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)

to learn more call 973.575.9114 or visit www.controlinstruments.com
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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

<table>
<thead>
<tr>
<th>sample &amp; exhaust at the same pressure</th>
<th>sample pressurized &amp; exhaust to ambient (0 psig)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-15” wc</td>
<td>no sample pressure regulator required</td>
</tr>
<tr>
<td>15” wc - 5 psig</td>
<td>no sample pressure regulator required</td>
</tr>
<tr>
<td>&gt;5 psig</td>
<td>not a valid option must exhaust to ambient</td>
</tr>
</tbody>
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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

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