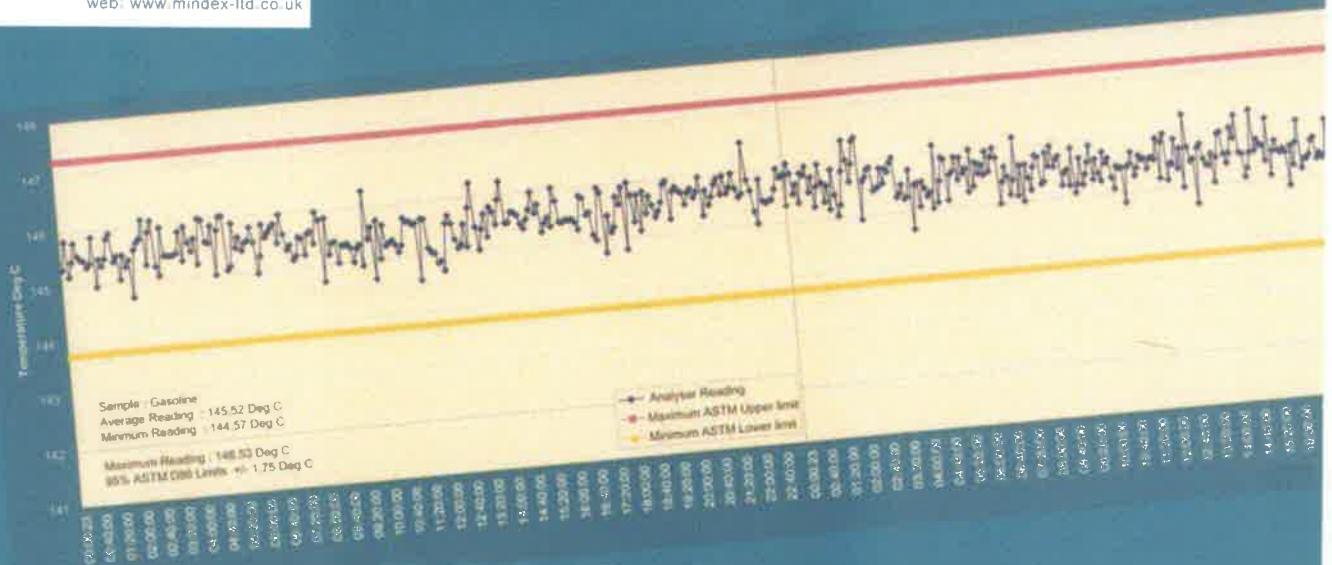




MINDEX

Mindex Limited

Unit 6 , Gatwick Metro Centre
 Balcombe Rd, Horley, Surrey
 RH6 9GA, United Kingdom
 Tel: 44 (0) 1293 408123
 Fax: 44 (0) 1293 408 125
 email: sales@mindex-ltd.co.uk
 web: www.mindex-ltd.co.uk



D86 Boilar

CONTINUOUS SINGLE POINT BOILING POINT ANALYSER

ATAG

D86 Boiling Point Analyser

Version 2.0

Date	05-08-2006	Current stream	Diesel
Time	11:35:42	Last switch	11:35:41
Analysar	GenFF v	Next switch	11:35:44
Boiling Point	25	Stream Temperature	
Temperature	10 g DegC	Hexo	17.4
Power	21x	Heptane	18.1
Level	1.500	Diesel	10.7
Set Point	48.000		
Atmospheric		External Alarms	
Pressure	1003.5mba	1	OK
Compensation	0.1	2	OK
Max Temp	10.0	3	OK
		4	OK

Current System state : Running Normally

Current Error condition: Output at minimum level

Internal Alarms

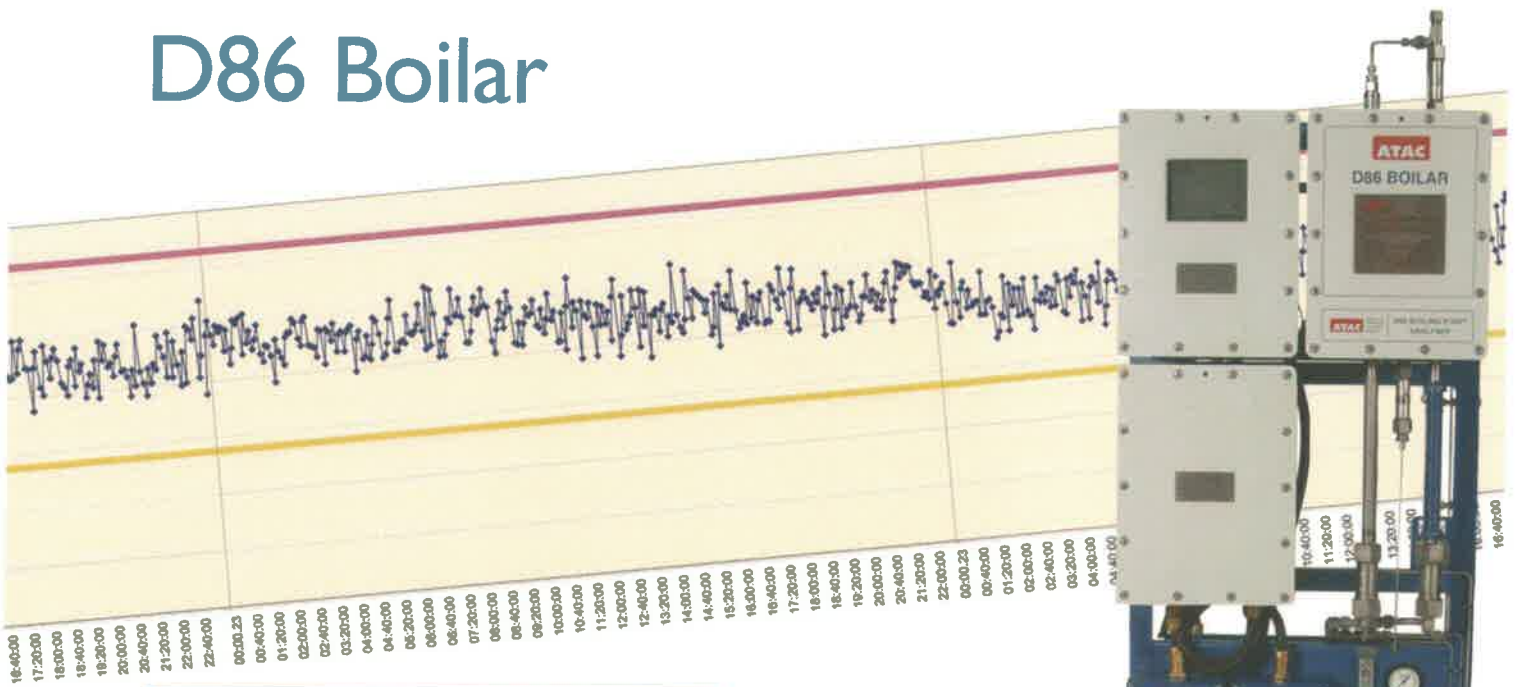
✓

External Alarms

✓



D86 Boilair



- High speed, continuous boiling point analysis
- Self diagnostics
- Correlates to ASTM D86 and ISO 3405-IP123 and surpasses test method repeatability
- Fully certified to ATEX, NEC, CSA, CTC
- Temperature 50 – 400°C for 5% – 95% distilled
- Fast response
- Accurate, reliable ultrasonic level detection
- Ideal for closed loop control of process plant

Principle of Operation

A sample is metered into the vaporiser assembly at a constant flow. The sample then flows down a heater assembly maintained at a temperature dependant on the percentage of sample to be boiled off and the residue is collected in a measuring device. The sample is then discharged at rate proportional to the sample input rate.

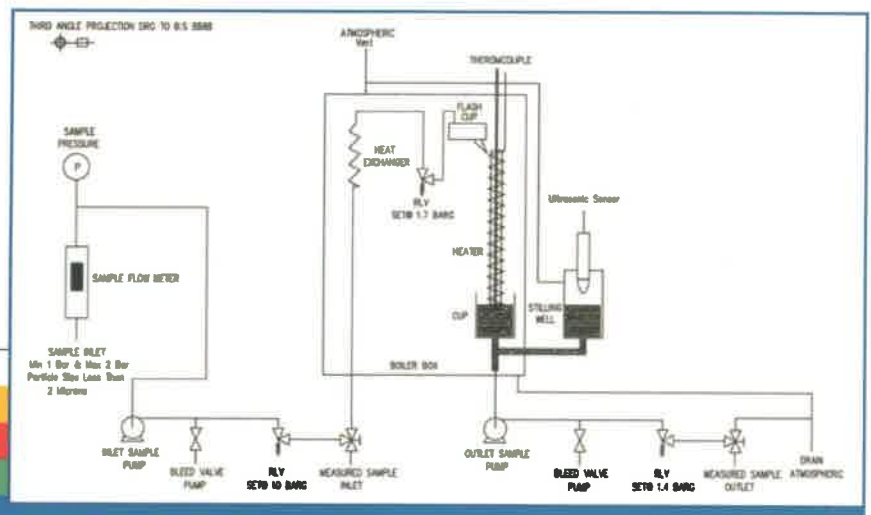
The ratio of the input pump to outlet pump will define the % of sample recovered.

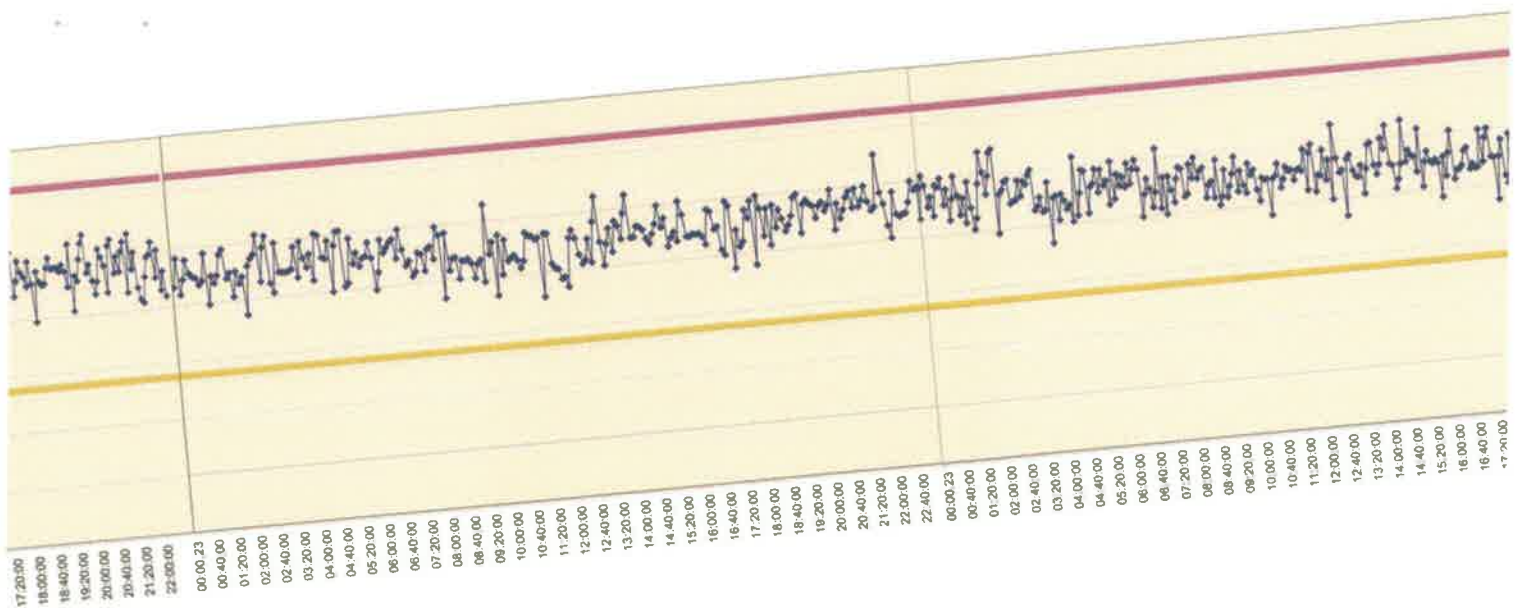
The temperature of the vaporiser at equilibrium is the percent recovered boiling point. This temperature is measured and transmitted.

The sample metering arrangements are infinitely variable between 5% and 95%. The percent recovered boiling point can range from 50 – 400°C.

The D86 BOILAIR continuously measures the percent recovered boiling point temperatures of petroleum products from 5% – 95% in the temperature range 50 – 400°C.

Simple to operate and easy to maintain, the D86 BOILAIR is the perfect choice for single point boiling point analysis.





Applications

High reliability, fast continuous response and excellent repeatability make the D86 Boiler ideal for increasing yields and improving blending operations and controlling distillation column to tight specifications in:

- Crude Distillation Units
- Blenders
- Towers
- Visbreakers
- Reformers

Options

- Cetane Index
- Auto calibration and validation
- Stream switching (3 available)
- Up to 4 external alarm inputs
- Choice of communications available
- TCP/IP networking and modbus via RS485

D86 Boiler

Specification

<i>Type of Analyser</i>	Continuous Single Point Distillation
<i>Application</i>	Boiling Point Calculated Cetane Index (optional, requires density input)
<i>Analysers Standard Range</i>	Temperature 50 – 400°C for 5% – 95% distilled
<i>Repeatability</i>	Surpasses ASTM/ISO test methods
<i>Certification</i>	ATEX certified to EN60079-0, 60079-1, 60079-7 and 60079-11 II 2G EEx d IIB + H ₂ T4 GOST CE Mark
<i>Response Time</i>	Approximately 2 minutes for a step change in sample characteristic
<i>Local Display</i>	Colour LCD Display
<i>Communications</i>	Modbus RS485 RTU, RS232. 4-20mA, TCP/IP available
<i>Sample inlet temperature</i>	65°C maximum (must be at least 20°C below the initial boiling point temperature of the sample)
<i>Sample pressure</i>	1 barg minimum 7 barg maximum
<i>Ambient temperature</i>	5 – 40°C
<i>Power requirements</i>	100 to 120 or 200 to 240 Vac ± 10% 50/60Hz 1200 VA maximum

Does not need an air conditioned shelter but protection from direct sun, wind and rain is recommended.