ANALYSER CONTROL UNIT Mark 4 (ACU)

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European EN14181

Part 60&75 Compliant Compliant











Analyser Control Unit Mk 4

Function - Controls and Processes the raw data from up to six (6) Procal Continuous Emission Monitoring Systems and Generates, Displays and Transmits concentration readings in customer specified units.

Facilities Include

The capability to not only display concentrations of gases monitored by the Procal Analyser but also to collect data from third party instruments such as Dust (Opacity), Oxygen, Temperature, Pressure and Velocity. This data can then be displayed and used in calculations to determine for example normalised concentration and mass measurements.

Display Parameters:

Main Screen displays gas concentrations (Optional Wet / Dry) and all inputted data with real time clock/ calendar and diagnostics status indication. The displayed concentration is "Flagged" with display criteria ie Normalised / Wet / Dry.

Test Screen (One screen for each analyser) displays Detector Signal, Input Data, Sample Pressure, Filter Wheel Speed, Sample Temperature, Analyser Temperature, Duty Cycle of Controlled Devices (Example Probe Heater)

Trend Screen displays (Minimum of I Year) history of each monitored concentration including data collected from third party instruments, selectable time scale and averaging function.

Analyser Controls are intuitive using touch screen to switch between windows and menus, optional keyboard and pointing device.

I/O (Standard):

Print Function - USB & parallel printer port **Data Dump Facility** - USB memory stick

Modbus - Four wire RS485 Full Duplex, Standard MODBUS Slave

OPC & ODBC

LAN - Ethernet two ports 10/100/1000 Mbps

I/O (Optional)

Up to 32 Current Output / Inputs 0 - 20 mA / 4 - 20 mA each galvanically isolated from ground and from each other. Normally only fitted with the same number of outputs as the number of Procal ranges, third party intruments connected to the system can also be allocated outputs.

Up to 32 Relay Outputs Volt-Free 28V dc 1A (n/c or n/o selectable) for channel alarms, analyser 'fault' relay, and for other functions.

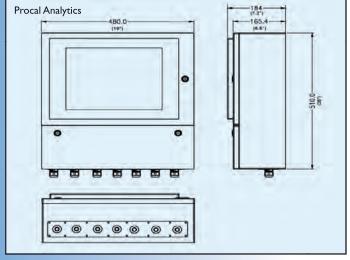
Up to 16 Digital Inputs 24V / 20mA logic or Contact closure detection Link Selectable.

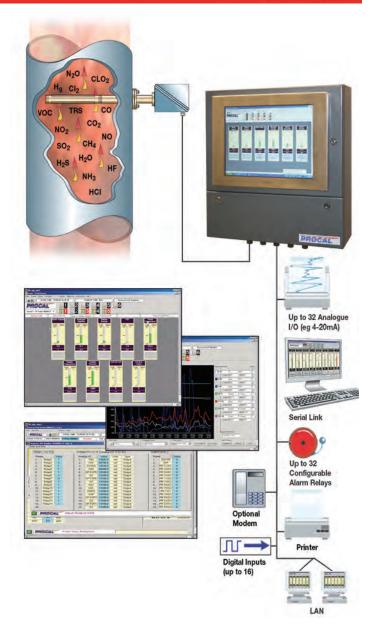
Reports

Reports can be generated to meet the requirements of the majority of national environmental authority reporting requirements.

These include:

- Calibration Status Report (Zero and Cal Report)
- Trend Reports (Configurable Period & Averaging)
- Hourly, Daily and Weekly averaging reports
- Excursion report
- Special Reports can be configured please consult factory





Data Storage: 140GB - In excess of eighteen months data storage

on a six analyser system

Software: Analyser Control for Windows Network (ACWn)

see Data Sheet 7-3037 for further details

 $\mathsf{Microsoft}\;\mathsf{XP}\;\mathsf{Pro}^{\scriptscriptstyle\mathsf{TM}}$

Enclosure: Polyester powder coated mild steel, Stainless steel panel PC bezel. Sealed to IP $65/NEMA\ 4X$

Operating Environment: Operating temperature range: -10°C to +45°C (+14°F to +113°F)

Enclosure Classification: Non-hazardous area

Services Required: 90-264Vac 47-63Hz 70W Typical / 160W Maximum (Dependent on options fitted)

Weight: 23kg (501b)

Dimensions: 510mm(H) $\times 480$ mm(W) $\times 184$ mm(D)

20"(H) x 19"(W) x 7.2"(D)



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