FRONTLINE Safety

Frontline 306

Specification Sheet

Document Ref C882-Bv1

Sequential Gas Sampling System 1-20 WAY

- Monitor up to 2 gas types, 4 as special build
- 1-20 sample points
- No sample line purge delay
- Wide range of sensor types
- 4 line alpha/numeric display
- Selectable sample line sequence
- Display of each sample line location
- Easily installed and maintained
- Full indication of all operations
- Event logging / Modbus / RS232 / RS485
- Line blockage and pump fail monitoring
- Variable sample time for optimum cycle time
- High integrity, comprehensive self check fault monitoring
- Centralised one man calibration offers minimum running costs
- Split system operation – optional
- Remote control panel – optional
- Line blockage, blow back – optional
- Hazardous area operation – optional
- Auto flood cut off – optional
- Enclosure internal gas monitoring with automatic system shutdown – optional
- Sample line multiplier – optional

The Frontline 306 system is designed to monitor gas levels from a number of sample-points, targeted at situations where the positioning of conventional gas sensors may not be practical. This may be due to equipment security, cable routing, access for detector head installation/maintenance, harsh environment or a cost effective means of monitoring designated hazardous areas, typically - tunnels, marine applications, underground/high level voids, process control, landfill, multi storey car parks, brewing, horticulture, superstore multi refrigeration units.

Operation

Gas samples are sequentially extracted for a timed period by a central control unit via fixed sample lines. A high rate sample is taken by the main pump during which a reduced rate sample is passed across the sensor device. The central unit provides gas level readouts with two alarm trip points per line, providing a range of signal outputs for annunciator and control functions.

Technical Specifications

Sample Points
1-20

Sensors
2 - standard 4~20mA input
1~4 special build

Measurements
Combustible gas - LEL % vol
Toxic gas - ppm % vol
Oxygen - % vol
Depletion / enrichment
Refrigerant - ppm

Display
4 line alpha/numeric indicates all functions and status in text.
Sample line locations (user settable)

User Interface
8 panel mounted push buttons –main panel and remote panel:-
Reset, Scroll, Hold, Dim, Enter, Down, Up, Select
PC – event log / data log, data to and from system controls

Power Supply
230/115vAC 50/60Hz
300W max

LED Indicators
System healthy
Main power
Standby power
High gas alarm
Low gas alarm
System, flow, sensor fail
Comms fail
Skip/hold
Sampling

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Sequential Gas Sampling System 1-48 WAY

Technical Specifications

Relay Outputs

Global Low S.P.C.O.
Global High S.P.C.O.
Global Fault S.P.C.O.
Flow Fail S.P.C.O.
Power Fail S.P.C.O.
Cabinet Sensor S.P.C.O.
32 programmable relays

Standards

EN60945:2002 Maritime general requirements
EN61010:2001 Electrical Safety LVD

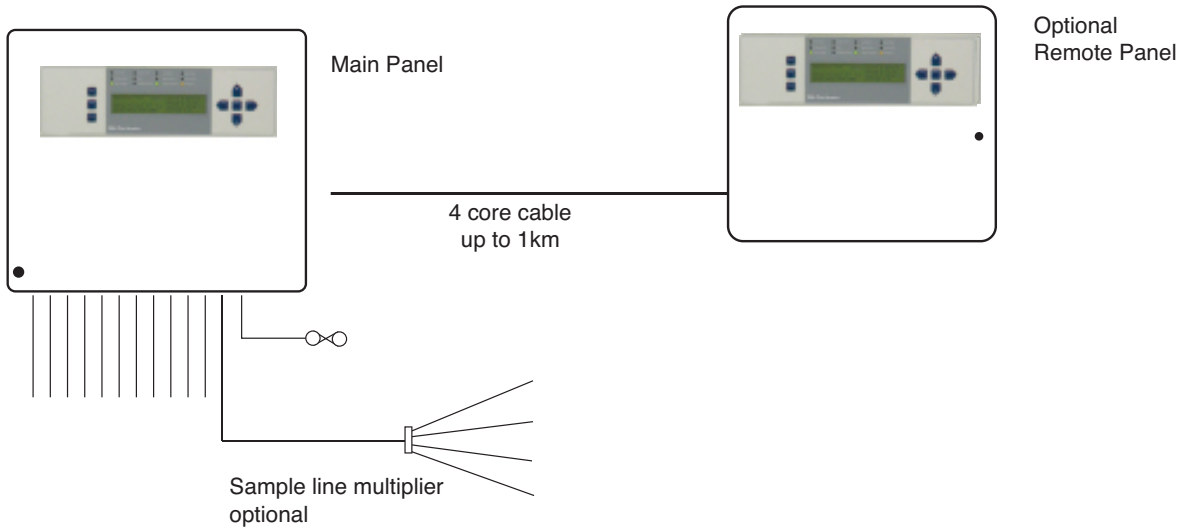
Communication

- RS232– Data Stream
- Modbus 2 x RS485
- CANbus – internal
- Optional 4~29mA analogue outputs

General

- Audible alarm all alarm conditions
- LED/display dimming
- User/Eng password
- LCD backlight
- Event logging
- Sample line size 6mm OD 4mmID
- Maximum length 200m
- Nylon, PTFE, Copper, Stainless Steel
- Sample vent x 2-8mm
- Tubing entry enclosure base, side option
- Response time 15 to 45 seconds
- Colour - powder coat ash grey BSA01
- Size 400mm H x 450mm W x 200mm D
- IP 63
- Wall mount
- Weight 20kg

Technical Diagrams



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