OdaTrak
System

for use in
ODOUR CONTROL

Incorporating a 4 to 20mA adapter to transmit gas data using a fibre optic cable

The OdaLog Logger has a proven track record in the wastewater industry as a tool to record, and then help control, levels of H2S gas in sewerage systems and treatment plants. Now the OdaTrak™ System provides a powerful extension to the OdaLog Logger, enabling the OdaLog unit to be interfaced with telemetry and control systems providing real-time gas data.

How it works

Data sent from the OdaLog Logger via fibre optic cable is read by the OdaTrak adapter, which then outputs the corresponding signal on a 4 to 20 mA loop. This signal can be used to control odour management strategies such as chemical dosing and alarm activation. The OdaTrak System requires the OdaLog Logger with fibre optic output, OdaTrak adapter, and fibre optic cable.

Features

Fault detection

OdaTrak will detect a loss of data from the OdaLog Logger, and once the duration of data loss exceeds a predetermined time limit, OdaTrak will output a fault signal on the 4 to 20 mA line. This alerts the user to the fault condition.

Suitable for harsh environments

Fibre optic cable terminations feature O-ring seals to prevent the ingress of dust and moisture. The OdaTrak adapter is also fully sealed.

Quick & Easy installation

With a M20 thread machined as part of the housing, the user can simply mount the OdaTrak through a 20mm hole or threaded junction box entry.

DataLogging

All standard OdaLog Logger functions, including data logging, are available while the 4 to 20 mA link is active. The OdaLog Logger is able to log continuously for up to 3 months before fresh batteries are required.

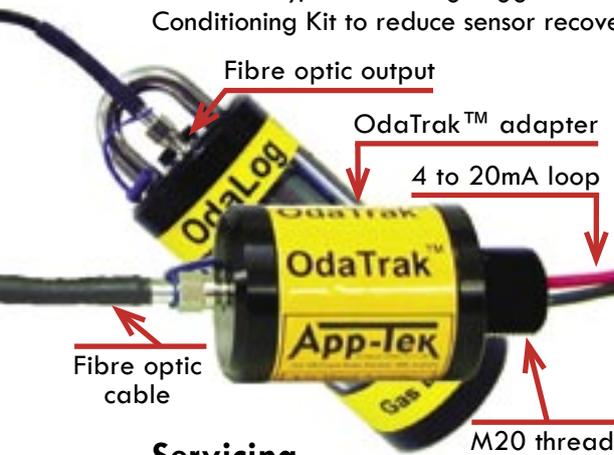App-Tek
INTERNATIONAL PTY LTD

OdaLog® Application

Wastewater authorities and odour control companies use the OdaLog Logger by leaving it at the source of an odour (e.g. within a manhole at the top of a rising main) to record parts per million (ppm) concentrations of H2S for periods usually between two days and one week.

Once they have recorded the ppm levels and the time of day that they are occurring, decisions can then be made about when and where to add odour reducing chemical or biological agents, and in what volumes.

By placing the OdaLog Logger in the same location and comparing data before and after treatment, the effectiveness of odour treatment programs can be determined and optimised. With its ability to log for extended periods, the OdaLog Logger eliminates the guess work in determining gas levels.

The OdaTrak™ System

The OdaTrak System requires three OdaLog Loggers with each unit in service no longer than one week, whilst the other two OdaLog Loggers are stored in fresh air. This allows the sensors to recover from the high relative humidity and gas levels present in most wastewater applications. Alternatively, two OdaLog Loggers units can be used with a Sensor Conditioning Kit to reduce sensor recovery time from two weeks to one week.

Fibre optic output

OdaTrak™ adapter

4 to 20mA loop

Fibre optic cable

M20 thread

Servicing

The OdaTrak adapter requires no regular servicing however we recommend that the OdaLog Logger is returned to an authorised App-Tek service centre at least once every 6 months for a full inspection, firmware upgrade (if available), calibration test for linearity, and to have new batteries fitted.

Warranty

12 month warranty when used in accordance with the operation manual (excluding freight costs)

Note: The OdaLog Logger with fibre optic output can still be used as a stand alone data-logging instrument if required. Data can be downloaded to a PC via infrared communication link, allowing further analysis through the powerful OdaLog software.

Specifications	
Loop Supply Voltage Limits Normal operating voltage: Absolute min/max limits:	24VDC (regulated supply – no ripple) 8VDC to 28VDC *
Maximum loop-to-housing voltage	28VDC
Maximum Loop Resistance	112ohms at 12VDC 602ohms at 24VDC
0% FSD	4.0mA
100% FSD	20.0mA
Under Range Limit, -2.5% FSD	3.6mA
Over Range Limit, +20% FSD	23.2mA
Fault Signal	3.5mA
Loss of OdaLog® link timeout	30 seconds
IP Rating	IP66
Temperature Range	-10°C to 40°C
Relative Humidity Range	15-90% (non-condensing)
Pressure Range	Atmospheric ±10%
External Dimensions	40mm diameter x 85mm long
Weight	150g
Fibre Optic Cable Length	10 metres to 100 metres
Fibre Optic Cable Minimum Bend Radius	40mm

*Note: The OdaTrak™ adapter is powered from the 4 to 20mA loop - no additional power supply is required. The OdaTrak™ System fully complies with immunity and emission requirements of EMC.

Ordering Information

Item	Part Number
OdaLog Logger H2S (0-200ppm) with fibre optic output	OL05F
10 Metre Fibre Optic custom lead	12-0009
OdaTrak fibre optic- 4 to 20 mA adapter	25-0356
Sensor Conditioning Kit	25-0390
OdaStat Software Kit	11-0042

Authorised Distributor