



**ZAN-TECH<sup>®</sup>**  
**AIR AUDITING**  
**SPECIALISED COMPRESSED**  
**AIR AUDITING SERVICES.**



# AIR AUDITING SERVICES



## Compressed Air Auditing

Zan-Tech offers a wide range of air auditing services, including flow metering, dew point and pressure testing, oil vapour and multi gas monitoring as well as compressed air leak detection. We also provide the capability of monitoring and data logging the critical compressed air process conditions such as:

- ▶ Air Flow - Piping sizes from 1/2" to 24".
- ▶ Air Velocities within the compressed air piping network.
- ▶ Pressure - from 1 Bar to 40 Bar pressure ratings.
- ▶ Temperatures, eg: Inlet to driers, Discharge from compressors.
- ▶ Dew Point - ranges are +50 DPD to -80 PDP.
- ▶ Current Consumption - on compressors from 0 - 25 Amps.

Zan-Tech has "Hot Tapping" equipment enabling the installations of all equipment under pressure. This ensures a continuous air supply as no isolation is required.

By using Zan-Tech for your compressed air process monitoring you can benefit from the following:

- ▶ Data Logging for up to 1 month.
- ▶ Zan-Tech only uses calibrated CS Instrumentation test equipment.
- ▶ Determination of plant air consumption by area.
- ▶ Confirmation of existing air dryer and compressor efficiencies.
- ▶ Energy consumption monitoring.
- ▶ Comprehensive study reports.
- ▶ Dew point tests.

Zan-Tech are also the official agents for the CS Instrument's range of flow meters and dew point sensors.





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## Oil Vapour and Multi Gas Monitoring

ZANTECH offers oil vapour and gas monitoring for breathing and medical air, applications.

GASTEC oil vapour tubes and a DRAGER XAM-7000 multi gas analyzer are used to monitor and data log residual gases such as O<sub>2</sub>, CO<sub>2</sub>, CO, SO<sub>2</sub> and hydrocarbons

- ▶ Calibration certified.
- ▶ Industrial breathing air testing.
- ▶ Hospital and medical applications.
- ▶ Extended data logging.
- ▶ Graphical reports.
- ▶ Oil vapour is measured in mg/m<sup>3</sup>.



## Air Leak Detection

We offer a full compressed air leak audit which is conducted with summaries of findings and relevant data compiled into a comprehensive report including potential energy savings.

An SDT 170 Ultrasonic air leak detection system is used for accurate leakage and detection on compressed air and gas systems.

- ▶ Reduce air or gas wastage.
- ▶ Save on energy costs.
- ▶ CO<sub>2</sub>, Argon, Nitrogen and other gas applications can also be tested.





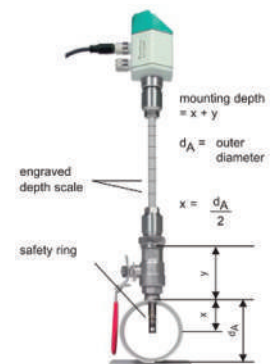
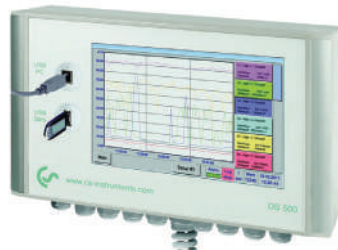
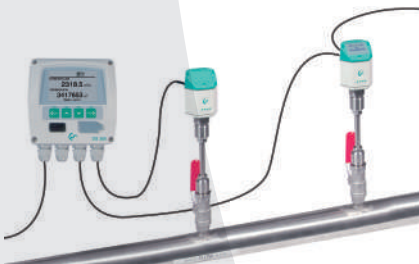
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## PERMANENT INSTALLATIONS

### ▶ **Flow Measurement**

Zan-tech supply CS Instrument thermal mass flow meters which are ideal for the measurement and consumption of compressed air and gases. These units can also be installed permanently allowing the client to monitor their compressed air consumption and conduct data logging.

- ▶ Integrated display for  $m^3/hr$  and  $m^3/min$ .
- ▶ Flow sensors to suit from  $\frac{1}{2}$ " to 24" pipe diameters
- ▶ Easy installation under pressure.
- ▶ 4...20mA analogue output / Pulse output for  $m^3$  / RS 485 Interface
- ▶ Inner diameter adjustable via keypad.
- ▶ Resettable consumption counter.



### ▶ **Dew Point Measurement**

For the accurate measurement of water vapour in compressed air systems. Zan-Tech offers both portable and fixed installations with data logging options.

- ▶ Measuring ranges are -80 PDP/Ctd to +50 PDP/Ctd.
- ▶ Analogue output 4...20mA.
- ▶ Condensation insensitive.
- ▶ Quick response time.
- ▶ High accuracy and low drift.
- ▶ Calibration certificate supplied with all instrumentation.
- ▶ Local calibration available.



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