

APPLICATION NOTE

Waste Water Treatment Works – THERMAL MASS FLOWMETERS FOR COMPRESSED AIR – BY HOENTZSCH

BACKGROUND:

A major STW in the Midlands processes waste water from the surrounding community. At the time of the enquiry it was going through an upgrade of blowers, diffusers and compressors. In order to make sure the water was getting a sufficient balance of air the flow meters in each lane required replacement.



THE PROBLEM:

A contractor was approached to find a replacement flowmeter for the air flow on the aeration lanes at the STW. The original meters had been installed for many years and had all failed. The selected unit had to have a history of use on air flow and be built to a good standard.

FLOWLINE'S METERING SOLUTION:

TA10 u10A insertion thermal mass flow meter from HOENTZSCH comes from a good pedigree. This high quality German built meter is a competitively priced solution for applications requiring standard process signals. It is installed using a compression ring fitting, with a G1/2" male thread.



EQUIPMENT DESCRIPTION:

The principle of air flow measurement is based on heat transport from an electrically heated body in ambient air dependent on the relative velocity between both.

Höntzsch TA10b sensors are using a thin film sensor element. Thin film sensor elements consist of an electrically heated Ni-resistor and a Ni-resistor temperature probe. The meter outputs are 4-20mA and an open collector pulse per x.x Nm³.



Further Information



For Further information on the Höntzsch range of thermal mass sensors contact us on
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E:
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EQUIPMENT DESCRIPTION:

HOENTZSCH
Thermal Anemometer
for Compressed Air.

Insertion Sensors for
pipes >DN40.
Inline Sensors for
Pipes <DN40

TA10 U10a, 10 mm
Dia. Probe

Outputs 4-20 mA and
Pulse.

Converter IP65.

Available in compact
or remote mount
options.

flowline
SPECIALISTS IN FLOW MEASUREMENT

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