

# ACCESSORIES

## CALCULATOR



The Shaw calculator brings together many different measurement units and enables calculations to be made for moisture levels at different pressures.

On one side is a conversion table showing dewpoint temperature in Fahrenheit and Centigrade, with the equivalent moisture levels in mg/water per liter, lbs/water per million cubic feet, parts per million water vapor by volume and water vapor pressure in mm of mercury.

The other side (illustrated here) enables any dewpoint temperature at any given pressure to be converted to the equivalent dewpoint temperature at any other pressure – with the moisture content in parts per million also shown.

## SENSOR HOLDER



The Shaw Sensor Holder is manufactured from solid stainless steel and makes installation of the sensor very easy. The inlet and outlet connections are fitted with high quality stainless steel compression fittings designed for 1/8" (3 mm) outside diameter stainless steel or copper pipe. On request, we can supply fittings for 1/4" (6.35 mm) or 6mm od pipe. We do not recommend using larger pipes as this would cause the system to have a longer response time. The unit has a design pressure rating of 245 bars (3600 psig) and can be supplied oxygen cleaned as if required.

## FLOW INDICATOR



This compact flow indicator can be used where visual indication of sample flow is required. A fine needle valve is incorporated, and the unit is calibrated for the range 1 to 10 L/min. air at NTP. Supplied complete with fittings for 1/8" od copper or stainless steel piping with fittings for 1/4" or 6mm od pipe available on request.

Maximum pressure 100 psig.



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## FILTER UNIT



Engineered from stainless steel, the Shaw Filter Unit is an effective device for removing particulate contamination from sample gases. The filter cartridge is made from glass fiber and epoxy resin, and can be washed in most solvents to extend its life. Filtration efficiency is 99.99% removal of particles of 0.6 micron and above. The unit has a pressure rating of 300 bars and is supplied as standard with fittings suitable for 1/8" od copper or stainless steel pipe. Fittings for 1/4" or 6mm od pipe are available on request. We only recommend using the filter unit when it is necessary, as it will inevitably lengthen the sample system response time.

## SHAW ZENER BARRIER UNIT

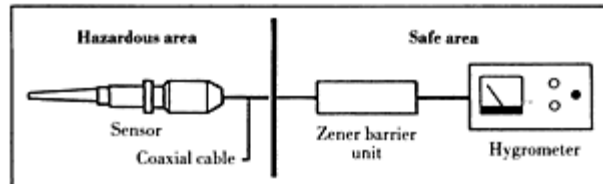


A great many of our instruments are used in potentially hazardous areas where there is a high risk of fire or explosion. Petrochemical works and oil/gas platforms are two obvious cases, but there are many others involving the use of hydrogen or other dangerous gases.

### There are two types of use to be considered:

**1** Spot-check readings where the instrument has to be within the hazardous area. The model SADP is traceable to National Physical Laboratories in London. Every meter is CE marked and is certified intrinsically safe to **BASEEFA 2001** Certificate No: baseefa03ATEX0065X (m II G EEx Ia IIC T6.) **FM** (pending).

**2** Mains powered instruments where continuous operation is needed, but it is possible to locate the instrument itself in a safe area. Where a safe area is available for the location of the instrument, the sensor may be placed in the hazardous area using a zener barrier unit included in the instrument to sensor cable, providing protection to BASEEFA 2001. The system certification is SYST baseefa03Y0070. Barrier Certification: BASO1ATEX7202 cert no: Ex01E2204.



Drawing label is simplified version of Baseefa 2001 311 Iss 1



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## SU4 SAMPLE CONDITIONING UNIT.



Sensor & meter inserted for illustration purposes.

The SU4 will reduce the pressure from the dryer to give a flow suitable for measurement. It combines a pressure reduction control, sensor holder and a flow meter for up to 10 liters per minute. (1-2 liter is usual for continuous use). Moisture measurement under pressure will not give the correct answer but room pressure used in the SU4 will read correctly.

- Sample Conditioning Unit, for wall mounting, comprising pressure regulator, flow indicator, and sensor holder mounted on a stove enameled back plate.
- Conditions flow of sample gas to the required 2-10 liters per minute at near atmospheric pressure for accurate and consistent sampling.
- Pneumatic connections with a choice of 1/8", 1/4", or 6mm compression fittings if required for inlet and outlet.
- 4 x 5mm mounting holes at 240 x 140mm (H x W rectangle).
- **Overall dimensions:** 260mm x 160mm x 135mm depth. **Weight:** 1.6-1.8Kg approx.
- Input Pressure): SU4-Lo up to 210Bar (3045 psi); SU4-Hi up to 400 bar (5,800 psi).



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