



SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER ITS13ATEX17749X Issue 3

13. Description of Equipment or Protective System

The WDG-V is an Oxygen, Combustibles, and Methane gas analyzer. The oxygen measurement is made with a Zirconium Oxide cell heated to 680 degrees Celsius. The optional combustible and Methane measurements are made with catalytic bead detectors. The internal box temperature is maintained to 225 degrees Celsius. In use, the WDG-V is typically mounted on the side of a flue and measures the concentrations of resultant gasses of a combustion process. The method of protection for the analyzer in hazardous locations is a type pz purge and the gasses under analysis are never in their explosive range (LEL).

The following models are covered under this certificate:

WDG-V: Oxygen only

WDG-VC: Oxygen and combustibles

WDG-VCM: Oxygen, Combustibles, and Methane

WDG-VM: Oxygen and Methane

Unit can be supplied with or without the loss of pressure switch option.

Purge Parameters:

Pressurization type: Ex pz

Internal Free Volume: 30.0L

Protective Gas: Clean, Dry Instrument Air Only (-20°C to 60°C), 30-50psi (207-345kPa)

Overpressure: 0.15" (0.38cm) H2O MIN 1.5" (3.8cm) H2O MAX

Maximum Leakage Rate: 15 LPM

14. Report Number

Intertek Report Ref: 102738492CRT-002 dated 3rd January 2017

15. Conditions of Certification

(a). Specific Conditions of Safe Use

- The end user shall ensure that all flammable gasses that enter the enclosure for analysis do not rise above their Lower Explosive Limit so as to become combustible.
- Use only appropriately approved conduit fittings or cable fittings for conduit entry (IIC, IP40 minimum), no holes should be unplugged.
- The equipment does not incorporate cells or batteries.
- Internal temperature rises above T code. End user must take immediate action on loss of pressure to re-instate purge.

(b). Conditions of Manufacture - Routine Tests

- A functional safety test shall be carried out in accordance with EN 60079-2 Clause 17.1
- A leakage test shall be carried out in accordance with EN 60079-2 Clause 17.2

