



**GLOW WIRE TESTER**

MODEL GWT-2000



The ED&D Glow Wire Tester model GWT-2000 is designed to carry out fire hazard testing on electro-technical products in accordance with the provisions of International standards. Designed and built in accordance with **IEC 60695** - - the glow wire reference standard. Some examples of standards that have adopted these requirements are: **IEC 60335**, IEC 884/94, IEC 1058, IEC 60598, IEC 61058, and all other IEC, UL, CSA, CE and VDE equivalents...such as **UL 746A**, etc. *The GWT-2000 is part of the esteemed ED&D "Millennium Series", considered the top-of-the-line in the industry.* Automated glow wire tester also available.

**Device information and specifications:**

A loop of resistance wire is electrically heated to a specified temperature and the specimen being tested is brought into contact with this heated wire with a defined horizontal loading. Observations and measurements are made to evaluate the fire hazard presented by the specimen during exposure to elevated temperatures.



The GWT-2000 Test device incorporates a control unit, a traverse unit and the glow wire.

The control unit is supplied with all the controls and metering necessary to accurately set the temperature of the glow wire. The wire current is continuously variable by means of the panel-mounted controller and is monitored by the built-in ammeter. A digital temperature indicator is fitted which, in conjunction with the thermocouple supplied, accurately measures the glow wire temperature. The electrical circuit of the control unit is fully protected by a circuit breaker and incorporates mains on/off switching and push button control of the output current. High brightness neon indicator is included so that the state of the electrical circuit is continuously displayed.



**Improvements from our previous version, the Model GWT-200...**

- Easier to control approach speed,
- Universal multi-position mounting bracket,
- Multi-position flame height gauge,
- Less unnecessary moving parts,
- Panel mount thermocouple connection,
- Clean, simple, modern aesthetics,
- Breaker instead of fuses,
- Digital current meter,
- Easier to calibrate,
- Easier to source replacement parts,
- 12 lbs lighter!



**REAR VIEW**

120V version

Note: Appearances can change without notice, due to design, feature or aesthetic improvements



System also includes:

Wooden Crating, free packing and handling, Wood board (required), silver foil, tissue paper, User manual, calibration, one year warranty, free lifetime technical support also supplied.

**ED&D is ISO 17025 Accredited in scope for this device. Unit is available with ISO 17025 Accredited, in Scope, calibration. ED&D Exclusive!**



**SPECIFICATIONS**

<b>Glow Wire Element:</b>	Ni/Cr wire, 4mm dia.
<b>Temperature Range:</b>	50°C – 960°C
<b>Current Range:</b>	0 to 200 A
<b>Thermocouple:</b>	Type K (Ni/Cr - Ni/Al)
<b>Thermocouple Size O/D:</b>	0.5 mm
<b>Temperature Resolution:</b>	1°C
<b>Traverse Unit:</b>	Horizontal
<b>Force:</b>	1 N
<b>Maximum Travel:</b>	24 cms
<b>Test Travel Limit:</b>	7 mm
<b>Flame Height Indicator:</b>	150 mm / 6 in.
<b>Input Power:</b>	120 Vac 50/60 Hz 6A (240 Vac optional)

**WEIGHT (unpackaged):** 60 lbs.  
**DIMENSIONS:** 26" (W) x 15" (D) x 24" (H)  
**Current meter:** True RMS, ±0.1% of reading accuracy (reference only)  
**Temperature meter:** ±0.6% of reading accuracy

**Built in accordance with the following requirements (there are 4 in the series):**

- EN60695-2-10 is for the test apparatus and general test methods
- EN60695-2-11 is the test method for end products
- EN60695-2-12 is one test method for materials (glow wire flammability index GWFI)
- EN60695-2-12 is another test method for materials (glow wire ignition temperature GWIT)

Patents Pending



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Other considerations:

- Replacement elements and thermocouples available. Consider having extras on hand.

**NOTE:** Most Standards have very specific requirements for these parts of the glow wire tester, in regards to maximum number of uses and/or cleaning. See your specific end-product Standard for details.

- Flame/fume Hood systems available - - standards usually *require* use of a hood system, with specific requirements, such as 1m<sup>3</sup> test space, dark background, exhaust capability to outside the building, etc. See your particular end-product standard for details. ED&D systems are built in strict accordance with these requirements.