



Talentum® I 609 I

Flame Sensor Test Unit

The test unit has been designed to generate a wide range of optical output signals, for the testing of Talentum flame detectors.

The test unit simulates the flickering flame signal by modulating the output of a filament lamp. The thermal time constant of a filament lamp prevents the generation of a perfect flame flicker signal. The slow response of the filament lamp will mean that some flame sensors many require more time to activate under test than they would with a real flame.

The unit is intended for service engineers to use, when performing commissioning and routine maintenance. This unit has been designed for use with Talentum flame detectors, but may be compatible with other devices.

Features

- Wide Spectral Output - UV, Visible, Near IR, Mid-IR
- Tests many Flame Sensors Types UV, UV/IR, UV/IR², IR³, IR², IR
- Portable with Rechargeable NiCd Battery Pack and Charger
- Selectable Optical Output Type
 - Constant Illumination
 - Regular Flashing Sources (Range of Frequencies)
 - Irregular Flickering Sources (Resembling Flames)
- Selectable Optical Output Intensity with LED Bar Graph Indication
- Range typically 3 metres and beyond
- 30 Second Timeout on Each Test
- Auxiliary 24Vdc Supply for Testing



Mechanical Specification

| | |
|------------------|--|
| Housing Material | Test unit: ABS and Noryl Charger: 94V-O polycarbonate |
| Housing Colour | Black |
| Dimensions | 260(H) x 90/128(W) x 60(D) mm |
| Weight | 1kg |

Electrical Specification

| | |
|---------------------------|---------------------------------|
| Charger Input Voltage | 85Vac to 265Vac @ 47Hz to 440Hz |
| Test Unit Battery Voltage | 24Vdc (Ni-Cd) |
| Test Unit Auxiliary | |
| 24Vdc Output Current | 0.1Amp. max. |

Light Source Performance

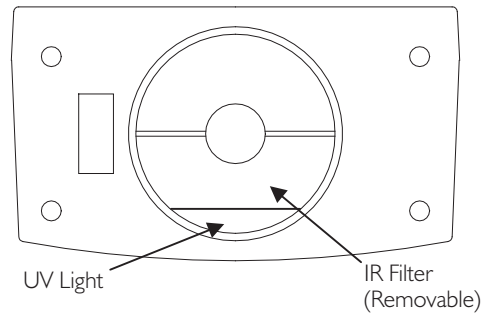
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| Light Source Power | 20W max |
| Beam Angle | 8° Cone |
| Spectral Response | UV Visible Near IR Mid-IR |
| | 200nm to 4.3µm |
| Test Range | 5m typical |

Environmental

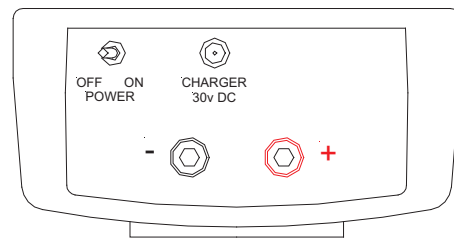
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| Operating Temperature | -15°C to +50°C |
| Charger Temperature | 0°C to +50°C |
| Relative Humidity | 95% Non condensing |
| IP Rating | IP54 |
| RFI/EMC: Test Unit | EN61000-6-1, EN61000-6-2 EN61000-6-3, EN61000-6-4 |
| Charger | EN 50130-4, EN 55022 FCC 20780 Level B, EN 55022 Level B |
| Charger Safety Standards | Approved according to UL 1950, CSA A22.2 no 234, IEC950, EN 60950, TÜV file No S9954870, S9954887 and S9954856 |

Transport Case

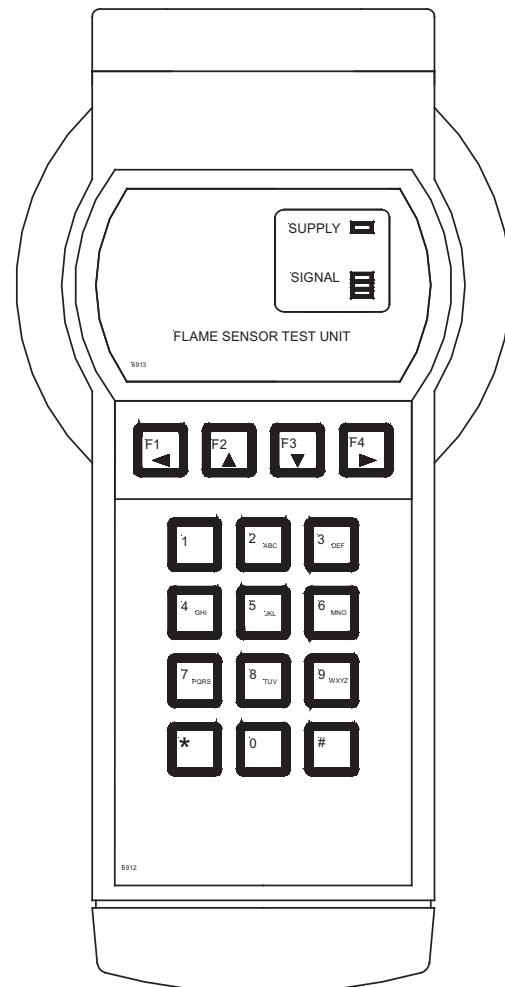
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|------------|----------------------------|
| Colour | Bright Blue |
| Dimensions | 375(L) x 295(W) x 75(D) mm |



Test Unit Top View of Light Source



Test Unit with Base Cover Removed



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