



Talentum® I 609 I

Flame Sensor Test Unit

This test unit has been designed to generate a wide range of optical output signals. Flame sensors for fire detection and flame monitoring applications can be activated and tested.

Most optical flame sensors respond to Ultra Violet (UV) and or Infra Red (IR) radiation emitted from flames during combustion.

Many sensors also use flame flicker techniques to distinguish between flames and other optical false sources.

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.

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	1 kg

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

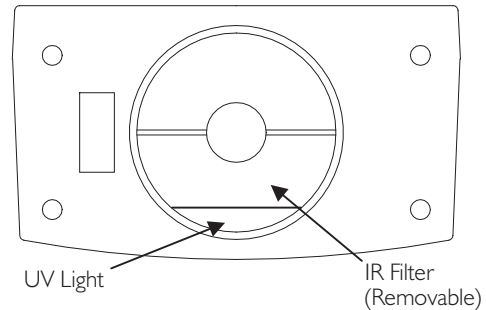
Light Source Power	20W max
Beam Angle	8° Cone
Spectral	UV
Response	Visible
	Near IR
	Mid-IR
Test Range	5m typical

Environmental

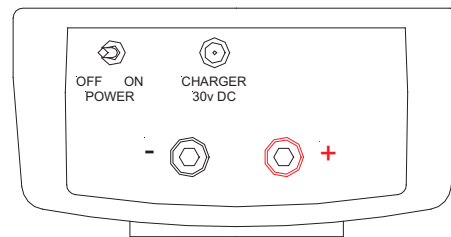
Operating Temperature	-15°C to +50°C
Charger Temperature	0°C to +50°C
Relative Humidity	95% Non condensing
IP Rating	IP54
RFI/EMC:	Test Unit EN61000-6-1, EN61000-6-2 EN61000-6-3, EN61000-6-4 EN 50130-4, EN 55022
	Charger FCC 20780 Level B, EN 55022 Level B
Charger Safety Standards	Approved according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

Transport Case

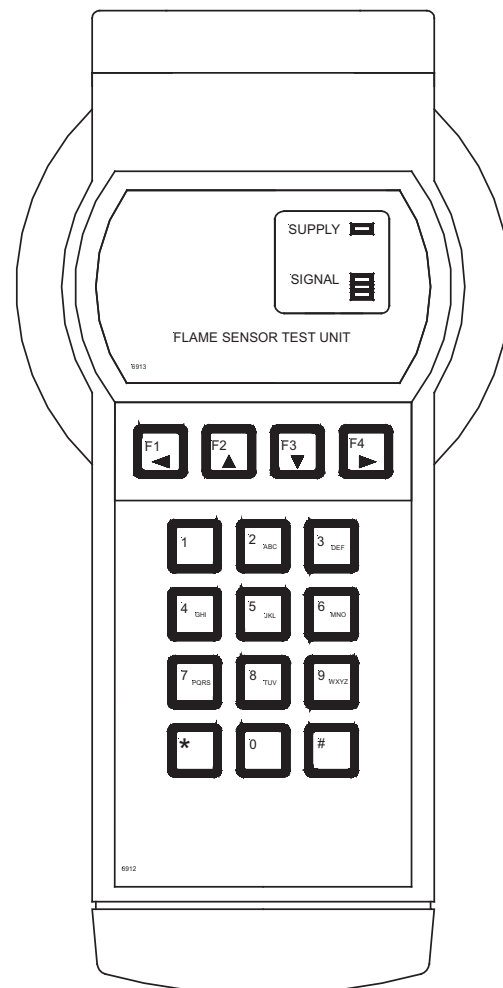
Colour	Bright Blue
Dimensions	375(L) x 295(W) x 75(D) mm



Test Unit Top View of Light Source



Test Unit with Base Cover Removed



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