Flame Sensor

Test Unit and Case

Product Overview

Product	Flame Sensor Test Unit and Case
Part No.	29600-226

Product Information

For use during commissioning and routine maintenance the Flame Sensor Test Unit has been designed to generate a wide range of optical output signals for testing flame detectors.

The test unit simulates the flickering flame 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 may require more time to activate under test than they would with a real flame.

IMPORTANT: *The Flame Sensor Test Unit is not approved for use in an Intrinsically Safe area.*

- Wide spectral output - UV, Visible, Near IR and Mid IR
- Tests many flame sensor types - UV, UV/IR, UV/IR², IR³, IR² and IR
- Portable with rechargeable NiCad battery pack and charger
- Selectable optical output types - constant illumination, regular flashing sources (range of frequencies) and irregular flickering sources (resembling flames)
- Selectable optical output intensity with LED bar graph indication
- Range typically three metres and beyond
- 30 second time out on each test
- Auxiliary 24 V dc supply for testing

Technical data

All data is supplied subject to change without notice. Specifications are typical at 24 V, 23ºC and 50% RH unless otherwise stated.

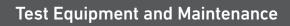|		
Charger input Voltage		85 V ac to 265 V ac @ 47 Hz to 440 Hz
Test unit battery voltage		24 V dc (Ni-Cd)
Test unit auxiliary output current		0.1 A max at 24 V dc
Light source performance		
Light source power		20 W max
Beam angle		8º cone
Spectral	UV	200 nm
Response	Visible to	
	Near IR	
	Mid IR	4.3 μm
Test range		5m typical
Operating temperature		-15 ºC to +50 ºC
Charger temperature		0 ºC to +50 ºC
Relative humidity		95% non-condensing
IP rating		IP54
RFI/EMC	Test Unit	EN61000-6-1, EN6100-6-2
		EN61000-6-3, EN6100-6-4
		EN50130-4, EN55022
	Charger	FCC 20780 Level B
		EN55022 Level B
Charger safety standards and approvals		UL1950, CSA A22.2 no.234, IEC 950, EN60950
		TUV File No.S9954870, S9954887, S9954856
Housing material		
	Test unit	ABS and Noryl
	Charger	94 V-O polycarbonate
Dimensions		260 x 128 x 60 mm
Weight		1 kg
Transport case		
	Colour	Blue
Dimensions		375 x 295 x 75 mm

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