

UV-4 FLAME DETECTOR

ULTRAVIOLET DETECTION FOR GAS AND LIGHT OIL FLAMES. The UV-4 Flame Detector is exceptional at sensing ultraviolet radiation that is emitted from the combustion of gaseous or distillate fuels. The spectral radiation of these fuels in the ultraviolet range is significantly greater than other fuels, and allows the UV-4 to positively sense and discriminate a targeted flame. The UV-4 can be applied to both wall-fired and tilting-tangential type burners. The UV-4 Flame Detector is used in conjunction with the Forney DR-6101E Amplifier and is connected by a four conductor, shielded prefabricated cable.

The UV-4 Flame Detector assembly is available with two different base configurations. One is the “front mount” for wall burners and the other is the “fiber optic mount” for tilting type burners or where special siting is required. The UV-4 flame detector is self checking for use as a main flame detector or class I or II igniter detector. This detector uses a high quality photoionization tube sensor with a rugged aluminum mechanical shutter.

- **ULTRAVIOLET SENSITIVE-** Detection of flames produced by the combustion of gas or distillate oil.
- **SELF-CHECKING ELECTRONICS-** Provides automatic system diagnostics to enhance operational safety.
- **FIBER OPTIC CONNECTIONS-** Base configurations are available for tilting burner designs.
- **NEMA 4 RATED HOUSING-**The rugged yet light weight housing provides the protection necessary to withstand a burner front environment.
- **SIMPLIFIED INSTALLATION AND MAINTENANCE-**Quick disconnect connections are used for ease of replacement.





UV-4 FLAME DETECTOR

PRODUCTS AND ACCESSORIES

UV-4 Detector		Part #37918902
UV-4 Base	(Front Mount w/lens)	Part #37900901
UV-4 Base	(Fiber-optic Mount)	Part #37850301
Isolation Valve & Wye		Part #35275001
Four Conductor Cable	(40 feet)	Part #37997205

SPECIFICATIONS

Mounting:	1" FNPT
Material:	Die cast aluminum housing with matte black, anti-slip finish
Electrical:	15VDC (supplied by Amplifier)
Electrical Connections:	MS Bayonet Connector supplied with cable, 1/2" flexible conduit required
Temperature Ratings:	32° F to 140° F, 0° C to 60° C
Humidity:	0-95% Rh-Non-condensing
Cooling Air:	10 SCFM
Cooling Air Connection:	1" FNPT
Weight:	4 lbs 6 oz
Check Cycle:	Once every two minutes
Sensor/Wave Length:	UV Photoionization Tube, 190-260 nm

