DR6101E DUAL RANGE AMPLIFIER

SIMULTANEOUS PROCESSING OF BOTH ULTRAVIOLET AND INFRARED FLAME DETECTION. The Forney DR6101E is a microprocessor based, dual-range flame amplifier. This two-range design allows the DR6101E to independently monitor and simultaneously process inputs from two detectors (UV and/or IR). Each amplifier provides a separate flame signal output for each flame detector connected. The DR6101E is compatible with any two IDD-II, IDD-UV, or UV-4; or one DR 6.1 (a UV and IR in one package).
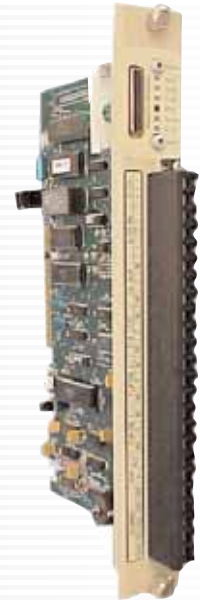
The DR6101E measures frequency and amplitude across the entire spectrum sensed by the detector(s) and converts input data into an easy-to-read pulse-per-second output. Flame-on and flame-off setpoints can be precisely and discretely programmed with Forney's SMARTDisplay™ (a hand-held terminal). The microprocessor within the DR6101E also stores diagnostic information and error messages that can be downloaded to the SMARTDisplay.

The Forney DR6101E is available as a panel mount (PM) or rack mount (RM) amplifier. The DR6101E can be mounted inside a local or remote control cabinet. Field wiring terminations can be made directly to the removable card edge connectors.

RM DR6101E Amplifier

PM DR6101E Amplifier

- **DUAL-RANGE OPERATION–** with simultaneous processing of ultraviolet and infrared detector inputs, the DR6101E can do the work of two amplifiers.

- **ANALOG INTENSITY–** flame intensity output of 0-10 vdc, or 4-20 mA are available for each detector input.

- **ENHANCED DISCRIMINATION** of flame-on/flame-off conditions– unique pulse-per-second output allows precise tuning and programming to optimize system performance.

- **ELECTRONIC SELF-CHECKING FUNCTION–** periodically checks the flame sensor to ensure that detector circuits respond to an actual loss-of-flame condition.

- **DETECTOR COMPATIBILITY–** with all versions of IDD-II, IDD-UV, UV-4, and DR-6.1 detectors. The DR6101E can replace most previous Forney flame amplifiers in any application with complete compatibility.

- **LED STATUS DISPLAYS–** indicate status of amplifier operating functions.

FORNEY

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A Kidde Company

DR6101E Dual Range Flame Amplifier

PRODUCTS AND ACCESSORIES

PM-DR6101E Amplifier		Part #38879801
RM-DR6101E Amplifier Card		Part #38805601
Amp Rack (8 slot)		Part #40432502
SMARTDisplay™		Part #36483901
Tuning Software		Part #39847400
Runs with PCMCIA Card AD converter		Part #9196200
Cable 40'	(for IDD-II, IDD-UV, UV-4)	Part #39985404
Cable 40'	(for DR 6.1)	Part #39985604

SPECIFICATIONS

Temperature:	0° to 55°C (32° to 131°F)
Humidity:	5% to 95% noncondensing

Panel Mount

Power Requirements:	110/220 VAC, 50/60 Hz @ 12 VA
Dimensions:	26.2 cm x 20.7 cm x 10.2 cm (10.3" x 8.3" x 4.0")
Weight	2.5 kg (5lbs. 8oz.)

Rack Mount

Dimensions:	PC card - 12" x 6.5" x 1.75"
	Amp Rack - 17.5" H x 19" W x 8.3" D
Weight	0.47 kg (1lb 3.2oz)
Output Relay Rating:	Form C SPDT(3)
	5A at 125vac or 250vac
	5A at 30vdc
Minimum Pickup Time:	1.0 sec
Nonvolatile RAM:	10-year battery
Compatible Flame Detectors:	IDD-IIL, Infrared Detector for Lignite
	IDD-II, Filtered, Infrared Detector
	IDD-IIU, Unfiltered, Infrared Detector
	IDD-UV, Solid State UV Detector
	UV-4, UV Tube Detector
	DR-6.1, IDD/UV Infrared/Ultraviolet Detector