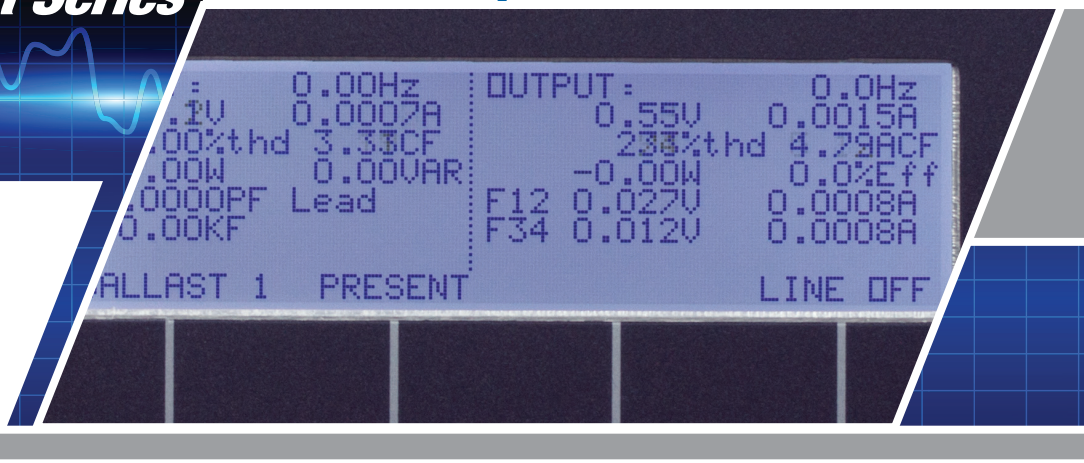
XITRON By VITREK

257xR Series Ballast Analyzers



Vitrek's 257xR Ballast Analyzers feature the speed and versatility to completely change the way ballasts and tubes are tested.

The 257xR ballast analyzers have been adopted by ballast/lighting manufacturers worldwide because of their greatly enhanced technological capabilities, greatly reduced setup and maintenance requirements, and low cost of ownership.

With the 257xR, up to four tubes and four ballasts can be tested in a fraction of a second for every key parameter, including peak inrush, striking and light efficiency (when used with a light monitor). With a capacity of 2,000 measurements per second on each of up to 30 signals, the only limitation to testing throughput is the speed of your production line.

The 257xR can be used in stand alone or computer controlled environments. It allows the user to simultaneously measure all pins on all tubes, independent output measurements, 12 voltages and 12 currents, (i.e. independent tube V and I measurement, independent filament V and I, for each tube that is configured). Continuous sampling at up to 2 Msps ensures that even the shortest transient events are measured.

Quality and Reliability

Vitrek, founded in 1990, is the premier source of precision power testing and measuring equipment for industrial and consumer product development and manufacturing. Vitrek's sophisticated technology provides companies the edge in design verification and product manufacturability.

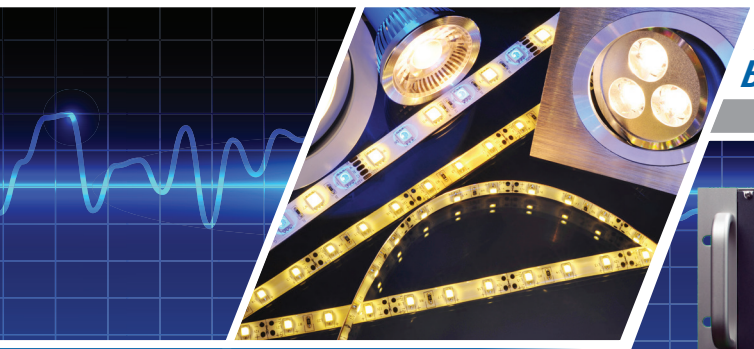
- > Displays all relevant ballast input/output measurements on a single screen
- > Completely tests a ballast in less than 100 ms
- > Fully automatic ballast start-up and tube striking detection
- > Results displayed graphically or numerically with down to 1 ms time resolution
- > IEEE488 control of AC sources for single user interface
- > Wide bandwidth, ballast output frequencies to 2 MHz
- > Every signal is monitored continuously with 12-bit, 2 MHz sampling
- > Automatic test sequencing and complete comparison of measurements vs. limits, including selection of different 1500 series load modules and engagement of 1500 series line switch modules
- > No computer or user software required
- > Graphical startup profiling with time sequencing
- > Graphical historical measurements
- > Supports magnetic, instant/rapid start, HID < 5kV pk, compact, high frequency, and hybrid ballasts, plus LED drivers
- > Test Summary Screen designated for the production floor environment, can display either a large PASS/FAIL or, upon query, can show up to 3 pass/fail faults

25
Years Industry
EXPERTISE

INDUSTRIES SERVED

• Automated Production Testing • Ballast Testing • Consumer Products • Engineering Labs
• Instrument Maintenance & Repair • Peak Power & Consumption Measurements
• Light Output Verification • Product Compliance Testing • Test Labs

257xR
Ballast Analyzers



Test Like You MEAN IT

Condensed Specifications

(Contact Vitrek for complete specifications)

LINE INPUT:

Volts/Current: 0.1%
Power: 0.15%

BALLAST OUTPUT:

Volts/Current: 0.1% (Line): 0.3% (50kHz); 5% (1MHz)
Power: 0.15% (line); 0.5% (50kHz); 10% (1MHz)

HARMONICS:

Line and Ballast Output Harmonics

SAMPLING:

Up to 2 MSPS continuous sampling

GRAPHICAL RESULTS:

Harmonics Barcharts, Historical Data Logging (2 sec. to 10 days, 0.5% time resolution)

PHYSICAL SPECIFICATIONS:

Power Input: 80-265 Vrms autoselect, 50/60/400 Hz @100 VA max
Size: (HxWxD) 4-1/2" x 11-1/2" x 10-1/2"
Weight: 2574R: 16 lbs. (7.3 kg)
Operating Range: 0°C to 45°C, <85% RH @ 40°C non-condensing
Storage Range: -30°C to 65°C, <95% RH @ 40°C non-condensing
Digital Interfaces (standard):
IEEE488.1: Full talk/listen and controller capabilities
Parallel: IEEE1284, unformatted text or PCL

ORDERING INFORMATION

PART #	DESCRIPTION
822-2571R	Single Tube Ballast Analyzer (Rackmount, with System Interfaces)
822-2572R	Two Tube Ballast Analyzer (Rackmount, with System Interfaces)
822-2573R	Three Tube Ballast Analyzer (Rackmount, with System Interfaces)
822-2574R	Four Tube Ballast Analyzer (Rackmount, with System Interfaces)
822-2574/R OPT. M	Increased Voltage Accuracy (improved accuracy up to 1.5kVpk limit)
822-2574/R OPT. HI	Removes Spark Gaps (increases input to 4.5kVpk)
822-257XR-HID	HID Ballast Option, 4.5kVpk Input, includes XC Current Option (6Apk per pin, 12Apk total) X= 1, 2, 3 OR 4 Ballast Output Connection
822-2574/R OPT. HL	Increases Line Current Capability to 40Apk
822-2574/R OPT. LC	Low Current Load Capability (0.75Apk per pin)
822-2574/R OPT. XC	Very High Current Load Capability (6Apk per pin)
892-2574/R OPT. F	Decrease to 2MHz -3dB bandwidth, reduced accuracy above 100kHz
892-2574/R OPT. 2X	Extra High Current Load Capability (12Apk per pin)
892-2574/R OPT. 1MEG INPUT IMP	892-257xR Option 1MEG input impedance upgrade, per channel cost (requires a calibration cost as well if not performed as part of a repair)
UG2574R	Additional Operating Manual Set

XITRON By VITREK

Vitrek
12169 Kirkham Road
Poway, CA 92164
(858) 689-2755
info@vitrek.com
www.vitrek.com

REV 3/19

ACCREDITED
Calibration Laboratory
Cert # 3678.01

CE

*Please visit **www.vitrek.com** for ordering information.*