

# 4300E vs. 4300C

**A modernized 4300 platform designed for faster setup, more repeatable testing, and easier automation**



The 4300E retains the proven measurement platform of the 4300C while significantly improving how the instrument is configured, operated, integrated, and automated. **The result is a more efficient instrument for production, laboratory, and dedicated test-station use.**

## KEY ADVANTAGES OF THE 4300E

### 1 STORED POWER-UP SETUP

Store the preferred range and operating modes so the 4300E powers up ready for the intended test. This reduces setup time, prevents configuration drift, and improves consistency on dedicated stations.

### 3 IMPROVED USER INTERFACE

A high-contrast OLED presents the measurement and key operating status together. Dedicated Timer, Send, Log, Store, and View functions reduce menu navigation and make common tasks more direct.

### 2 TIMED TEST CURRENT

Program a test-current interval from 0 to 1800 seconds. The Test Current key acts as the trigger; the 4300E captures the final reading and switches the test current off automatically.

### 4 MODERN COMMUNICATIONS

RS-232 and USB are standard, with optional Ethernet. Expanded remote commands and a common command approach make the 4300E easier to integrate into automated test systems.

## ADDITIONAL OPERATIONAL IMPROVEMENTS

- Peak mode can show Peak Hi, the live reading, and Peak Lo together.
- Hi/Lo comparison is easier to set up, including direct Nominal  $\pm\%$  entry.
- Automatic display dimming/screensaver helps extend OLED life.
- Front-panel Send and Log functions simplify data handling.
- Optional CET supports external switches, foot pedals, or safety interlocks.
- Expanded status and control commands improve remote-system visibility.

# Side-by-Side Comparison

| Area                          | 4300C                                               | 4300E                                                                                                            | 4300E Advantage                                                 |
|-------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Measurement platform          | Proven 4300 measurement architecture                | Retains the proven 4300 measurement architecture                                                                 | Continuity without sacrificing measurement capability           |
| Power-up configuration        | Operator re-establishes the desired setup as needed | Stored setup preserves preferred range and operating modes across power cycles                                   | Faster startup and more consistent test stations                |
| Timed test current            | Manual operator timing                              | Programmable 0–1800 s timer; final reading captured and current shuts off automatically                          | More repeatable test duration and less operator variation       |
| Display / interface           | Legacy front-panel interface                        | High-contrast OLED with measurement and operating status presented together                                      | Faster interpretation and easier day-to-day operation           |
| Peak / comparison functions   | Traditional functionality                           | Improved Peak display plus more direct HLC / Nominal $\pm\%$ setup                                               | Quicker pass/fail configuration and better visibility           |
| USB connectivity              | Optional                                            | Standard                                                                                                         | Simpler connection to modern PCs and test systems               |
| RS-232                        | Standard                                            | Standard                                                                                                         | Maintains compatibility with existing installations             |
| Ethernet                      | No Available                                        | Optional Ethernet                                                                                                | Network integration for automated environments                  |
| Remote commands               | Legacy command set                                  | Expanded command set for timer, trigger, stored setup, CET/safety status, brightness, and Ethernet configuration | More complete remote control and status monitoring              |
| External test-current control | CET option available for interlock use              | CET option supports interlocks and external switching; optional foot-switch control available                    | Flexible hands-free or safety-controlled test-current operation |
| Data handling                 | Primarily legacy workflow                           | Dedicated Send / Log functions and interface selection from the front panel                                      | Fewer steps to capture and transfer readings                    |

## WHY UPGRADE?

For an existing 4300C user, the value of the 4300E is not a change in the fundamental measurement concept—it is a substantial improvement in workflow. **The instrument can be left configured for a specific application, run tests for a controlled duration, provide clearer status information to the operator, and integrate more cleanly with current automated systems.**

**SAME PROVEN MEASUREMENT PLATFORM. A MUCH BETTER WAY TO OPERATE AND AUTOMATE IT.**