

ALPHA Plus® Meter



ALPHA Plus Means Powerful Metering

Elster Electricity's ALPHA Plus meter is a powerful meter that builds on the patented ALPHA® metering technology. The ALPHA Plus meter can be a single phase, 240 volt, one-rate demand meter or a polyphase, wide voltage supply, multi-rate, real/reactive meter that validates meter service connections automatically, performs power quality monitoring, and provides load profile reading with remote communications.

Load Profile and Event Logs

The main circuit board has 28 KB of memory available to record load profile and data logs. The following table shows an example of the quantity of load profile data the meter can store with a 15-minute demand interval.

Number of channels	Maximum days stored
1 channel	141 days*
4 channels	35 days*

*Number of days may be fewer depending on the number of event log entries.

The integrity of load profile data does not depend on the meter battery because load profile memory is stored in nonvolatile EEPROM. When enabled with the load profile capability, the ALPHA Plus meter records date and time stamps for the following events:

- power failure
- test mode
- time change
- demand reset

With power quality monitoring enabled, the meter also includes date and time stamps of PQM events, including voltage sags.

Power Quality Monitoring

When this feature is enabled, the ALPHA Plus meter searches for exceptions to user-defined thresholds for items such as voltage, current, power factor, and total harmonic distortion. The meter performs various tests that measure and collect power quality data 24 hours a day.

System Service Tests

System service tests are performed to check the validity of the electrical service as wired to the meter. The ALPHA Plus meter verifies the service type, phase rotation, and validity of phase voltages. The ALPHA Plus meter also determines if phase currents are within a user-defined threshold.

Instrumentation

Instrumentation values provide near instantaneous analysis of the electrical service. All quantities can be programmed to display on the LCD in the normal or alternate display sequence:

- per phase voltage and per phase current
- per phase voltage and per phase current phase angles (as measured to phase A voltage)
- per phase current phase angle as measured to same-phase voltage
- per phase power factor and power factor angle
- per phase kW, kVAR, and kVA
- per phase total harmonic distortion for both voltage and current
- system frequency
- system kW, kVAR, kVA, power factor, and power factor angle

Revenue Metering

A1K+ and A1R+ meters measure, store, and display a full set of energy and demand values for both real/apparent and real/reactive quantities, respectively. These meters provide two complete blocks of time-of-use data. Each TOU rate is supported by separate fractional energy registers.

The A1R+ meter offers vectorial kVA values as a metered quantity choice. Average PF can be displayed when kW and kVA are selected as metered quantities.

Alpha Plus Meter Technical Manual

Lauren Gardner



Alpha Plus Meter Technical Manual:

Technical Manual United States. War Department,1944 **Technical Manual** United States Department of the Army,1971 *Workplace Monitoring Procedures Manual* ,1985 **AATCC Technical Manual** American Association of Textile Chemists and Colorists,1985 User's guide for RAM D. Bruce Turner,Joan Hrenko Novak,1978 *73 Amateur Radio's Technical Journal* ,1975 **Federal Register** ,1992-02-21 **Operators and Organizational Maintenance Manual Including Repair Parts and Special Tools List for Semitrailer, Tank, 5,000 Gallon, Bulk Haul, Self Load/unload M967 (NSN2330-01-050-5632); Semitrailer, Tank, 5,000 Gallon, Fuel Dispensing, Automotive M969 (NSN2330-01-050-5634); Semitrailer, Tank, 5,000 Gallon, Fuel Dispensing, Under Overwing Aircraft M970 (NSN2330-01-050-5635).** ,1988 **Popular Science** ,1963-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Scientific and Technical Aerospace Reports** ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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