PRIMATA
Tecnologia Eletrônica

Technical Specifications

P34

REATEST

Public Lighting Test Device

Presentation

The **Public Lighting Test Device P34 – REATEST** was developed aiming to reduce operational costs with the maintenance of Public Lighting systems. It is a portable equipment developed by **PRIMATA ELETRÔNICA** for the execution of quick tests in systems such as **Mercury Vapor (MV), Sodium Vapor (SV) and Metallic Multivapors (MM)**.

The **P34 – REATEST** also adds the ability to test the ignitor's functioning and identify the polarity of the high voltage pulses.

In MV Public Lighting systems, when a short circuit occurs in the reactor windings, it loses the ability to reset the current and causes the lamp to burn out. This fact can only be verified in the field when the burnt lamp is replaced and then the almost immediate burning of the new lamp is verified, generating losses.

In SV and MM systems, in cases of short circuit in the reactor, the situation is similar to that of the MV system. However, the ignitor may also stop working and the polarity of the ignition pulses may not be correct. Reversing the polarity of the ignition pulses causes a significant reduction in the useful life of the lamp and igniter due to the inherent capacitance between the socket thread and the lamp thread, which causes the damping of the high voltage pulses, making them insufficient to cause ignition.

Benefits

The use of the **Public Lighting Test Device P34 – REATEST** gives the user the following advantages:

- ✓ Gains in productivity through fast and safe testing of Public Lighting systems (MV, SV and MM);
- ✓ Savings with replacement and maintenance of reactor, ignitor and lamps;
- ✓ Lightness and portability;
- ✓ More than 10 years of product quality recognition by the market;
- ✓ 1 year factory warranty;

Applications

The **Public Lighting Test Device P34 – REATEST** allows the execution of quick tests in Public Lighting Systems such as Mercury Vapor (MV), Sodium Vapor (SV) and Metallic Multivapors (MM), allowing:

- ✓ Quick diagnosis of the system situation, avoiding possible new lamp burning;
- ✓ To identify the need or not for polarity correction of ignition pulses;
- ✓ To identify the need to change the whole set (reactor, ignitor and lamp);

Performable Tests

Reactor test: verifies if the reactor is in good condition, short-circuited or open.

Ignitor test: verifies if high voltage pulses are present in the lamp socket, detecting the ignitor's operation.

Polarity test: verifies in which socket contact (central or side) the high voltage pulses are being applied, indicating whether the lamp connections to the reactor are correct or not.

Technical features

Tests performed by the equipment:	Self-test of REATEST operation; Short-circuit reactor; Open reactor; Presence and polarity of the ignitor pulses;
Permissible reactor powers:	70 to 400 W
Power supply:	Battery 9V (7 to 9.5 Vdc)
Consumption (in 9V):	396 mW (without alarm) / 513 mW (with alarm)
Weight:	0.7 kg (appliance) / 1.15 kg (appliance + case)
Dimensions:	210 x 190 x 78 mm

Conservation Care

- ✓ Keep the tip of the equipment clean, to avoid bad contact with the lamp socket;
- ✓ Do not turn the tip, as this may damage the internal connections of the equipment;
- ✓ Do not use the equipment under rain, because all electronic equipment is sensitive to humidity;
- ✓ Avoid falls and accidental impacts that can damage the structure or the keys of the equipment;
- ✓ Keep the equipment in a dry place;

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PRIMATA ELETRÔNICA products are in constant improvement. Therefore, the technical specifications contained in this material may be changed without previous notice. Check our website for possible updates.