ETM-IS31-001

01 / Prepare the installed system

The battery pack supports the electronic timer within the documented D818 purge arrangement. It is a replaceable power component, not the timer assembly that controls the purge cycle.

> **Installed position**
>
> ETM-IS31-001 is the service battery pack for a matched electronic timer. The purge controller, timer assembly and installed enclosure remain separate equipment.

Pre-work verification

Verify exact pack

Compare ETM-IS31-001 and the installed timer identity before opening the enclosure.

Avoid active purge

Do not exchange the battery during an active D818 purge cycle; follow the applicable safe-work sequence.

Control the environment

Apply the equipment certification, hazardous-area and site isolation instructions before access.

Retain connections

Use the specified retaining-screw and plug procedure; avoid forcing the connector or damaging the timer assembly.

Engineering checks

When should ETM-IS31-001 be replaced in the D818 electronic timer arrangement?

The D818 maintenance instructions call for battery replacement at least every three years; use the site maintenance schedule and the installed equipment revision to plan the service.

Can ETM-IS31-001 be changed while a D818 purge cycle is running?

The D818 procedure says not to replace the battery during a purge cycle. Follow the approved safe-work sequence and repeat commissioning checks after the change.

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02 / Install, commission and hand over

05 / Check the timer separately

If the purge still fails, examine the timer assembly and other listed causes instead of assuming a battery fault.

06 / Recommission

Repeat the D818 commissioning checks after battery replacement before returning the purge function to service.

Use only in the Expo timer and equipment variants that identify this exact battery pack; suitability follows the complete installed marking and service procedure.

What should be checked when reconnecting ETM-IS31-001 to the timer?

Follow the specified plug and retaining-screw procedure, check connector seating without forcing it, and inspect the timer and cable for damage before commissioning.

Does ETM-IS31-001 alone establish an intrinsically safe system approval?

No. The pack must be used within the complete approved timer and equipment arrangement; verify the supplied pack marking and installed certification conditions.

What verifies proper operation after ETM-IS31-001 is replaced?

Repeat the applicable D818 commissioning tests and confirm the purge cycle reaches its required completion state, with alarms and indicators behaving as specified for the installed system.

Technical basis: Expo Technologies D818 Electronic Timer user manual and Ex Print user manual.

Related product references

EXPO ETM-IS51-113

EXPO ETM-IS11-113

Technical enquiry

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