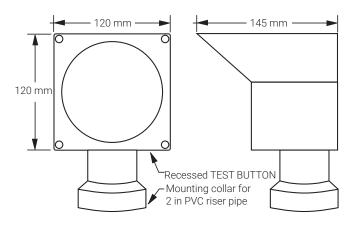
TT-FLASHER-BE



HAZARDOUS AREA, BATTERY POWERED FLASHING LED ALARM SIGNAL



TT-FLASHER-BE with protective rain hood/shadow box for enhanced daylight visibility



PRODUCT OVERVIEW

Simple, effective leak indication

The nVent RAYCHEM TraceTek TT-FLASHER-BE is an inexpensive, battery powered device that provides an easy-to-see flashing light signal whenever a TraceTek sensor cable or probe detects a leak. Because it is completely self contained and requires no external connections, it is simple and inexpensive to install.

Intrinsically safe and rated for hazardous areas

TT-FLASHER-BE operates on two "AA" Alkaline, long-life batteries. Because the available voltage is limited to 3.3 V and because the TraceTek sensor cables and probes require very limited energy, this device is approved as intrinsically safe. The sensor cable, probes, jumper cable and the TT-FLASHER-BE itself can be installed in most hazardous area classifications (see approvals section for details). TT-FLASHER-BE can monitor any of the TraceTek family of sensor cables including TT3000, TT5000, TT5001 and TT7000. The device will also monitor the TT-FFS fast acting fuel detection probe. No external zener safety barriers are required; sensor cable or probes are connected directly to the TT-FLASHER-BE...

Visual indication only

TT-FLASHER-BE provides the ultimate in simple operation: A flashing RED light indicates that a leak has been detected. There are no external relay signals and no connections to other alarm systems.

A TEST button is provided so that the battery voltage and integrity of the sensor wiring can be easily verified.

TT-FLASHER-BE will signal a low battery condition with a double-flash signal for about 1 month before the battery voltage drops to an unusable level. However, batteries should be changed as part of an annual preventive maintenance schedule.

Trade off: simplicity vs. human factors

Because TT-FLASHER-BE is designed to be seen by an operator, it is not suitable for all installations. There is no provision for relay contacts or other means of remote alarm indication. The TT-FLASHER-BE must be seen and the local facility staff must respond to the visual signal for the system to be effective. Likewise if the batteries are allowed to go completely dead, the TT-FLASHER-BE will be unable to signal a leak situation.

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OPERATION AND INDICATIONS

Normal operation Normal indication is no flashing light
Leak detected Flashing red light (3 high intensity LEDs)

Flashing interval at once per second

Low battery Double flash at 2 second interval

Leak detected and low battery Alternating single and double flash

at 1 second interval

When test button is pushed Single flash at 1 second interval

No flash

Battery voltage is ok and wiring to sensor cable is good. This is the normal "good test"

indication

Sensor wiring is damaged, sensor is disconnected or battery is completely dead. Immediate servicing is required!*

* Weekly interval test is recommended

Special Operating Note

The TT-FLASHER-BE must be seen in order to be effective. The TT-FLASHER-BE body is often mounted on a vertical riser pipe and the head should be rotated so that the lens is easily seen by facility personnel from their normal work stations or as they walk or drive by the TT-FLASHER-BE location. When used together with TraceTek sensor cables or probes, the TT-FLASHER-BE is very effective at providing early indications of underground or concealed leaks, but it not effective if it is not seen or if the plant personnel do not report and respond to the flashing leak signal. When TT-FLASHER-BE is first installed in a new facility, the operating staff should be briefed in how the new equipment is intended to operate and what to do if a flashing LEAK signal is detected.

Caution

Do not use TT-FLASHER-BE in a plant safety or emergency shut-down application that requires immediate response. TraceTek offers other monitoring and telemetry solutions for situations that require immediate feedback to the control room.

ORDERING INFORMATION

Rain/UV resistance

Maximum ambient temperature

Minimum ambient temperature

Catalog number	P/N	Description
TT-FLASHER-BE	P000000837	Battery powered, flashing light, leak detection indicator
PRODUCT CHARACTERISTICS		
Enclosure rating		NEMA-4X, IP66 anti-static materials
Weight (with rain hood and leader cable)		1.4 kg nominal
Light source		3 high intensity, high efficiency red LEDs
Battery information		2 "AA" Alkaline Long Life Duracell MN 1500
Projected battery life		2 years - nominal
Recommended battery replacement interval		1 year or whenever low battery signal is detected
Duration of leak detected signal		Minimum 30 days at 20°C
Duration of low battery signal		Minimum 30 days at 20°C

40°C

Suitable for outdoor installations

-20°C (operational with limited duration to -40°C)

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APPROVALS AND CERTIFICATIONS



Intrinsically Safe Apparatus Class I Div 1 Groups A, B, C & D AEx ia IIC T4

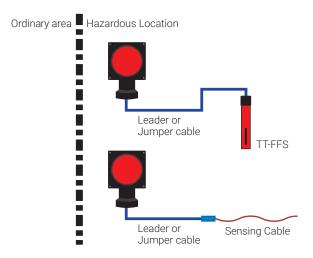


Ex ia IIC T4

Enclosure Type: 4X, IP66 Temp Code T4 Entity parameters: $U_{\circ} = 3.3V$ $I_{\circ} = 7.3mA$ $P_{\circ} = 6.02mW$ $C_{\circ} = 100 \mu F$ $L_{\circ} = 200mH$

HAZARDOUS AREA INSTALLATIONS

The TT-FLASHER-BE is approved for use in hazardous areas. The module can monitor intrinsically safe TraceTek sensors located in hazardous locations, as shown below.



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