

Product Summary: The DT4V5BAT is a certified Intrinsically Safe (Ex) factory-assembled primary battery pack engineered exclusively for powering DATCON digital indicators, field transmitters, and real-time clock units operating in hazardous explosive environments (ATEX / IECEx Zone 1 and Zone 2).

TECHNICAL SPECIFICATIONS

Manufacturer / Brand	DATCON Kft. (H-1148 Budapest, Fogarasi út 5, Hungary)
Product Model / Part No.	DT4V5BAT
Component Classification	Intrinsically Safe (Ex) Replacement Battery Assembly
Cell Chemistry	High-reliability primary electrochemical system (non-rechargeable)
Nominal Supply Voltage	4.5 VDC
Expected Service Life	≥ 2 years continuous standard operation (dependent on ambient temp and update rate)
Permissible Operating Temp	-20 °C to +60 °C (ambient operating limit matching host transmitter)
Storage Conditions	+10 °C to +25 °C in dry, non-corrosive industrial atmosphere
Hazardous Area Rating	ATEX II 2(1) G Ex ib [ia Ga] IIC T4 Gb / Ex ib [ia Ga] IIB T4 Gb (when installed in host)

INSTRUMENT COMPATIBILITY & MECHANICAL INTEGRATION

COMPATIBLE HOST UNITS - DT9100 / DT9100 I: Field Indicator & Loop Display - DT9100 B: Battery-Powered Digital Clock Unit - DT9102 / DT9102 I: Industrial Process Indicator - Direct snap-in internal connector harness	EXPLOSION PROTECTION COMPLIANCE - Compliant with EN 60079-0 and EN 60079-11 standards - Maintains host intrinsic safety certificate loop criteria - Integrated short-circuit current limiting mechanism - Hermetically encapsulated internal structure
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⚠ MANDATORY SAFETY INSTRUCTIONS FOR HAZARDOUS AREAS

Do not attempt to recharge: The DT4V5BAT is a non-rechargeable primary battery. Application of reverse charging current poses a fire or explosion risk.

Zero Field Rebuilding: Replacing individual inner cells or modifying harness potting strictly voids ATEX/IECEx certification. The battery assembly must be replaced exclusively as a complete OEM unit.

Servicing: Disconnect and swap the battery only in accordance with host manual DT9100 guidelines (perform outside hazardous zone unless verified de-energized / non-hazardous).

ORDERING & LOGISTIC INFORMATION

Order Code	Description	Packaging	Origin
DT4V5BAT	Intrinsically Safe 4.5 VDC Replacement Battery Pack for DT9100/DT9102	Single unit sealed pack with safety labeling	European Union (Hungary)