Limit level ER-142 / ER-143 **Electrode relay** (conductive)

Ex-ia approval

- Optical alarm and operation status indication
- Potential-free output as SPDT



Electrode relay type ER-142

Electrode Relays ER-142/ER-143

For control and detection of levels in Ex-areas.

The (Ex-ia) electrode relays ER-142 and ER-143 are designed for our conductive probes which are installed in areas with explosive atmospheres.

The range of applications covers all areas in which conductive liquid media have to be detected or controlled.

operation) as well as min./max. control can be implemented.

The electrode relays here are used as an interface between Ex- and "Non-Ex" area. The units however are not allowed to be operated in Ex-areas. Safe isolation is tested and certified by the PTB (Physikalisch-Technische Bundesanstalt).

The devices can also be used as contact protection relays if e.g. pickups only allow low contact loads but on the other hand higher loads have to be switched.

The electrode relays ER-142 and ER-143 basically consist of the four functional components power supply, intrinsical unit, potential free output and the measurement and evaluation electronics. The ER-142's potential free output consists of one SPDT, the ER-143's output Hereby limit level detection (overflow, dry of two SPDTs (simultaneously operated).

> The relays represent a complete functional unit for capture and control purposes of levels in combination with our electrodes which are available in a large variety of types for many various applications. It is possible to use the electrode relays ER-142 and ER-143 as contact protection relays by combining them with NIVUS "signal pickups" (pressure bells, float switches, etc.).

specifications are subject to change. 4:\Konduk\er-db-ct\er-db-en.cdr / Rev. 03 - 03.04.2013

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ER-142 / ER-143



Specifications

