

TECH BULLETIN #2

MODEL # R.D.E.

(R)echargeable (D)esiccant (E)nclosure



- Junction Box for Field Connections
- Rechargeable Desiccant NEMA 4X Non Metallic
- Desiccant Viewing Window
- Strain Relief Cable Entry
- Field Terminals
- Optional Transient Protector
- Only 5" X 5" X 3"



The Sigma Controls RDE contains a desiccant capsule to absorb moisture that may enter the transducer cable.

The Sigma R.D.E. provides a field mounted terminal enclosure with an integral rechargeable desiccant cartridge.

Although Sigma Controls' level transmitters do not use "breather tubes" in the submersible cable, moist air can enter the transmitter if the end of the cable is terminated in a wet area or is submerged.

The R.D.E. combines a Nema 4X enclosure and two cable strain reliefs with a desiccant capsule that can be "recharged" in a convection or microwave oven hundreds of times.

The clear viewing window permits the desiccant to be checked periodically.

Add an optional transient suppressor and the R.D.E. provides a convenient, safe, field termination and transition point for the factory supplied heavy wall sensor cable to transition standard 'twisted pair' cable.

Periodic recharging may be necessary if the capsule turns pink, indicating that moisture is present. To recharge the capsule, follow these simple steps:

- 1) Remove the four plastic screws that secure the enclosure cover.
- 2) Remove the capsule from the cover, it is secured by Velcro.
- 3) Place the capsule in a microwave oven and heat "several times" **FOR LESS THAN 45 SECONDS** or until the desiccant material turns blue.

This operation can be repeated hundreds of times. **DO NOT MELT THE PLASTIC CASE.**