

## ENT 7-STF Level Switch

for  
liquids  
powders  
aggregates

## ACU 2030-STF Alarm Control Unit

with  
ENT 7 System Test Facility



### ENT 7 Level Switch

- Compact, all-in-one unit
- Fail-safe selection
- System test facility
- Solid rod or flexible sensing probes
- Optional high temperature barrier with probes to 400°C working
- Low cost, easy to install

### ACU 2030 Alarm

- High intensity audible alarm and bright visual alarm
- Test button for ENT 7 and ACU alarm
- Audible alarm mute facility with auto reset
- Weatherproof design
- Relay contact for external alarms
- Cost effective and easy to install

### Application - ENT 7

The ENT 7 is a self-contained single point level switch designed to provide a switching signal at high or low levels in silos or vessels containing powders, granules or liquids.

The ENT 7 is housed in a compact weather and dustproof enclosure and can therefore be used in most environments. Various probe configurations are available to meet different application requirements.

### Operation

The ENT 7 sensing probe forms an electrical capacitor with the surrounding metal container walls.

On covering the probe with material the value of this capacitor increases.

The capacitance change is detected by the electronic circuit of the unit and used to operate the built-in relay.

The output of the unit provides a voltage-free relay contact. An internal fail-safe selector switch allows either high or low level fail-safe relay switching ensuring that the relay always de-energises when the alarm level is reached.

### Specification

**Part Numbers:** According to build

**Supply:** 110-120 Volts (range 95-130V) 50/60 Hz, 4VA  
230 Volts (range 190-260V) 50/60 Hz, 4VA  
or 24 Volts DC (20-28V), 2 Watts.

**Application:** Bulk materials with a dielectric constant > 2.5, or liquids.

**Output:** Single pole change over contact, voltage-free  
Rating: 250V ac, 3A 750VA

**Indicator:** LEDs, GREEN 'normal', RED 'alarm'.

**Fail-Safe:** The unit is fitted with an internal fail-safe selector switch. This feature ensures that the relay is always de-energised when the selected alarm condition (L= low level or H= high level) is reached.

**Temperature:** Ambient -20° . . . 60°C. Electrode -20° . . . 80°C (Optional high temp. barrier and ceramic insulator +400°C)

**Housing:** Glass loaded ABS or Aluminium Alloy

**Cable entry:** 2 x Pg 11 compression glands, others available.

**Protection:** IP 65 (BS 5490/IEC 529)

**Mounting:** 1½" BSP parallel thread (standard), 1" BSP optional

**Weight:** 1.5 kg approx according to build.

### Application - ACU 2030

The ACU2030 is designed for use with any level switch that has voltage-free relay output contacts.

The ACU 2030 provides audible and visual alarms of level alarm conditions and is designed for outdoor mounting and is protected to IP65.

### Operation

The system consists of the ACU2030 alarm control unit and a level switch with voltage free relay output contacts.

The ACU2030 unit incorporates both visual and audible alarms, voltage-free output relay contacts, test button and audible alarm mute button.

When the output on the level switch changes state, due to the presence of an alarm condition, a DC circuit is completed and the alarm in the ACU2030 is activated.

On an alarm condition the alarm LED will come on, the sounder operates and the output relay will energise. Operating the mute pushbutton silences the sounder.

Operating the test pushbutton will simulate an alarm condition causing the alarm LED to come on, the sounder to operate and the output relay energise.

### Specification

**Part Numbers:**

2030 02 000-1	230Vac
2030 02 000-2	110Vac
2030 02 000-3	24Vac
2030 02 000-4	24Vdc
2030 02 000-5	48Vac

**Supply:** factory set 110V/230V ac : 50Hz : 3VA.  
24/48V ac : 50Hz : 3VA. 24V DC : 2 Watts.

**Indicator:** Red LED cluster lamp

**Sounder:** Variable tone, 107dB at 1 metre.

**Controls:** Test pushbutton, Mute alarm pushbutton.

**Input:** Voltage-free relay contact.

**Relay:** SPCO - Voltage Free., 3A at 250V ac:750VA.  
1A at 12V DC non-inductive load.

**Housing:** IP65 Polycarbonate ABS for wall mounting.

**Dimensions (mm):** 125 x 125 x 85

**Cable Entry:** 2 x PG 11 cable gland, others available.

**Weight:** 0.63kg.

**Protection:** IP65.

We reserve the right to alter specifications or designs without notice.

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