

CONDUCTIVE PROBE LEVEL CONTROL RELAY

TYPES: ANZ-MTR



FEATURES

- Din rail mounted
- Modern modular design
- Width 27mm (1.5 modules)
- SPCO output
- Transformer technology
- Adjustable sensitivity 2-100 KOhms
- Adjustable time delay 1-10sec
- Selectable pump up or pump down
- Relay proving feature
- LED indication
- CE marked

DESCRIPTION & MODE OF OPERATION

An attractive modern designed conductive probe type level control relay in a din rail mounted modular style housing of 1.5 modules width (27mm). The ANZ-MTR is a transformer based conductive probe level control relay and is hence available in dedicated AC voltages only. The sensitivity is potentiometer adjustable 2-100 Kohms, also a potentiometer is fitted to adjust a delay on tripping timer 0.1-10 secs, useful to delay threshold tripping due to fluid movement in tanks. An eight way function switch is provided (designated A to H) to switch between "pump up" and "pump down" modes along with a relay proving function "permanent on" or "permanent off", the switch will also determine how the adjustable time delay will function.

The function positions are as follows:

- A:** Pump up, delay on energisation & de-energisation
- B:** Pump down, delay on energisation & de-energisation
- C:** Pump up, delay on energisation
- D:** Pump down, delay on energisation
- E:** Pump up, delay on de-energisation
- F:** Pump down, delay on de-energisation
- G:** Relay proving, permanent on
- H:** Relay proving, permanent off

Regulation of two levels - pump down mode: The relay energises when the high level probe is reached and deenergises when the level falls below the low level probe.

Regulation of two levels - pump up mode: The relay de-energises when the high level probe is reached and energises when the level falls below the low level probe.

Regulation of one level - pump down mode selected: Connect the maximum and the common terminals together. In this case a single probe only is used and the relay operates when the probe is immersed.

Note: Selection of pump up-mode reverses the relay.

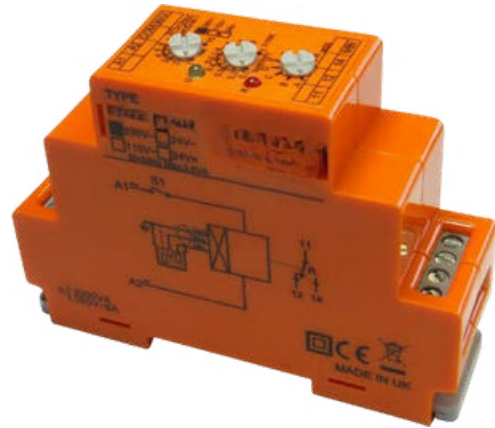
Relay proving feature: The front selector switch can be used to "prove" the relay either permanently ON or permanently OFF.

Common probe: A common reference is always required, if the vessel or tank is conductive the chassis of the tank or vessel will suffice. If the tank or vessel is not conductive a third probe is required to act as the common reference.

ORDERING INFORMATION

TYPE	COIL VOLTAGE
ANZ-MTR-(Din rail SPCO)	1-415VAC
	2-230VAC
	3-110VAC
	4-24VAC/DC
	5-12VAC/DC

DC auxiliary supply units are possible but the probe supply is an isolated 5VDC with a consequential risk of a possible electrolysis reaction, especially in solutions with a high mineral or contaminant content.



SPECIFICATIONS

Supply & Measuring

Supply voltage:	Dedicated voltage units 24VAC, 110VAC, 230VAC, 415VAC, 24VDC, 12VDC (unisolated) (±15%)
Max power consumption:	3VA
Insulation:	2.5KV 50Hz impulse
Sensitivity range:	Adjustable 2-100K Ohms
Delay on tripping:	Adjustable 1-10secs
Probe supply:	20VAC *5VDC on DC Version
Max probe current:	2mA

Relay output

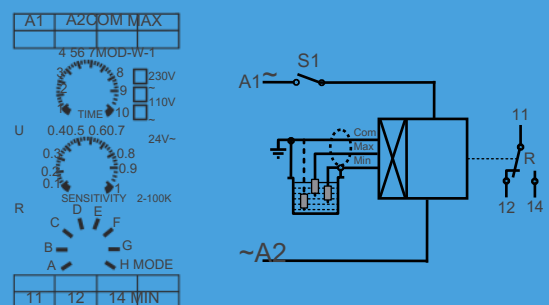
Output contacts:	SPCO8 Amps/250V AC1
Max breaking capacity:	2000VA
Mechanical life:	30 Million ops
Electrical life:	200K ops at max rated load

General

Operating temperature:	-20oC to +65oC
Storage temperature:	-20oC to +65oC
Max cable size:	2.5mm
CE marked:	EN61000-6-1: 2007 EN61000-6-3: 2007 EN61010-1: 2002

Housing Material:	Polycarbonate, Auto extinguishable to UL 94 V-0
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CONNECTIONS



FUNCTION

