



Specification

Part Numbers	202550000-1	230V ac version.
	202550000-2	110V ac version.
Supplies	110V/230V ac : 50Hz : 4.5VA max. Input voltage set via links on PCB (default 230V ac).	
Input	Voltage-free switch	
Operating Modes	Selected by links on PCB.	
	<ol style="list-style-type: none"> Dual channel level switches (high or low level). Latched level switches for pump control etc. (high or low level). Single channel level switch (high or low level). 	
Relay Outputs	SPCO - Voltage Free. 8 Amps at 250V ac.	
Housing	Polycarbonate ABS enclosure for vertical wall mounting. Dimensions : 125mm x 125mm x 76mm.	
Protection	IP65.	
Cable Entry	3 Pg9 glands for 6-8mm cable.	
Weight	0.50kg.	
EMC Standards	Emissions	EN 50081-1
	Immunity	EN 50082-2
	LVD	EN 61010-1
Note:	We reserve the right to amend this specification without prior notice.	

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- RADAR and MICROPULSE
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- PRESSURE TRANSMITTERS
- VIBRATION SWITCHES
- CAPACITANCE
- Float Level Switches
- Conductivity
- Rotary Paddle
- Magnetostrictive
- Self-powered gauges
- Oil/water Alarms
- Leak Detectors
- Pressure and Temperature



Declaration of Conformity

Relay Interface Unit

This is to certify that the above named product fully complies with the Electromagnetic Compatibility Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC of the European Union and with the requirements of the normative sections of the following harmonised European Standards.

- EN61000-3: Electromagnetic Compatibility - Generic Emission Standard. Residential, Commercial and Light Industry.
- EN61000-2: Electromagnetic Compatibility - Generic Immunity Standard. Heavy Industry.
- EN61010-1: Safety requirements for electrical equipment for measurement, control and laboratory use.

Signed:

Position: **D C Ward**
Technical Services Manager,
Date: 13/09/07

This declaration applies to the following part number(s):
202550000-1 230V ac version.
202550000-2 110V ac version.



1. Application

The relay interface unit is a multi-purpose unit which operates in conjunction with an external voltage-free switch to provide alarm signals in tanks, sumps or bund enclosures containing light heating oils, diesel fuel or water and other non-hazardous low viscosity liquids. When the switch closes a slave relay is energised on the interface unit enabling pumps to be started or stopped, valves to be opened or shut etc.

The unit has three modes of operation selected by links on the PCB.

- Dual channel switch enabling two independent switch points (high or low level) to be set up.
- Latched switch enabling pump control between two levels.
- Single channel switch (high or low level).

2. Operation

The system consists of the relay interface unit and the external voltage-free switch. When the switch closes a circuit is completed and the output relay is energised.

3.1 Installation

The relay interface unit is protected to IP65 and is designed for wall mounting. The front of the unit is removed by unscrewing the four captive screws. Three Pg9 glands are provided loose for cable access in the base of the unit.

3.2 Wiring

- 3.21 Wiring to the relay interface unit must be in suitable cable for the application conditions, and the installation must comply with all statutory requirements that may effect the complete installation.
- 3.22 The unit must be supplied via an unswitched fuse unit to prevent unauthorised isolation of the system.
- 3.23 Standard electric cable, suitable for the installation must be used and consideration must also be given to any special environmental conditions.
- 3.24 The instrument must be wired in accordance with the wiring diagrams on pages 3-5.

4. Testing of System Function

The system can be tested simply by operating the external switches and checking that the correct relay states are obtained.



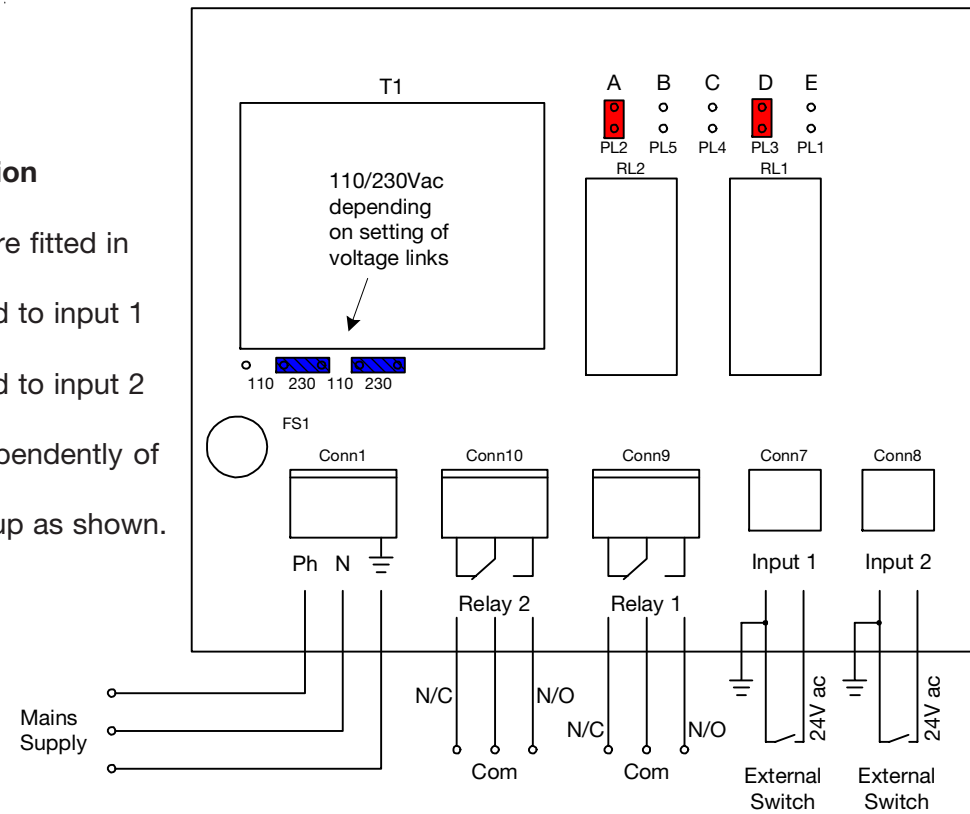


Installation

5. Wiring Diagrams

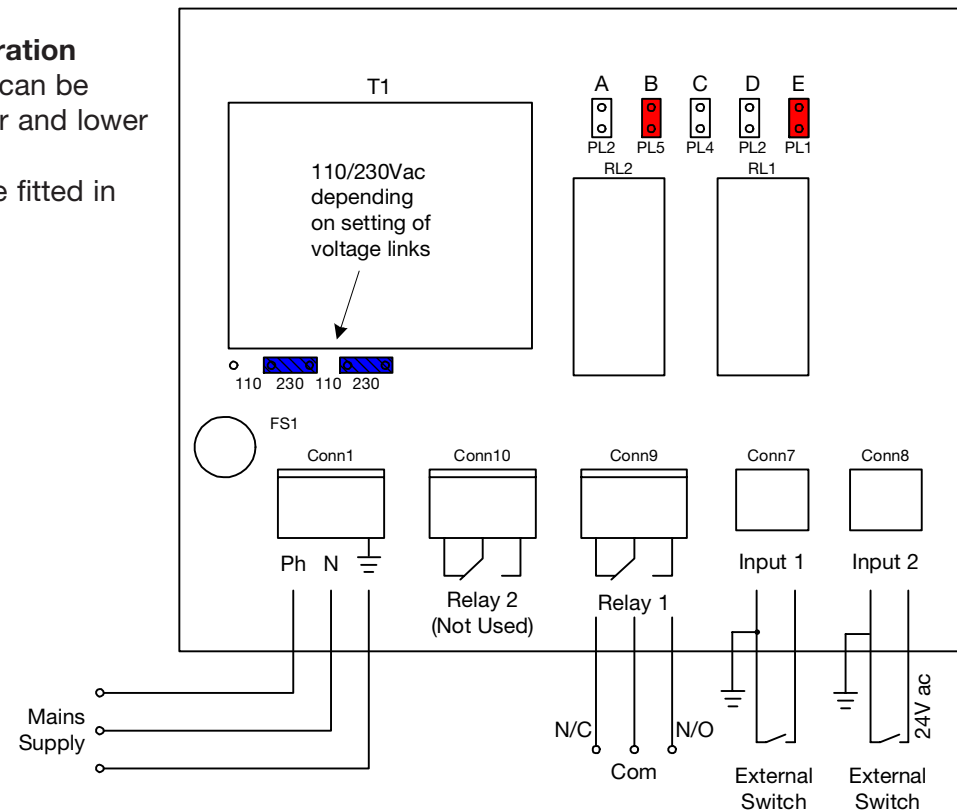
5.1 Dual Switchpoint Operation
(Factory Default Setting)

The mode selection links are fitted in positions A and D. When the switch connected to input 1 closes - relay 2 energises. When the switch connected to input 2 closes - relay 1 energises. The switches operate independently of each other. The PCB should be wired up as shown.



5.2 Latched Switchpoint Operation

In this mode the liquid level can be controlled between an upper and lower switchpoint. The mode selection links are fitted in positions B and E.

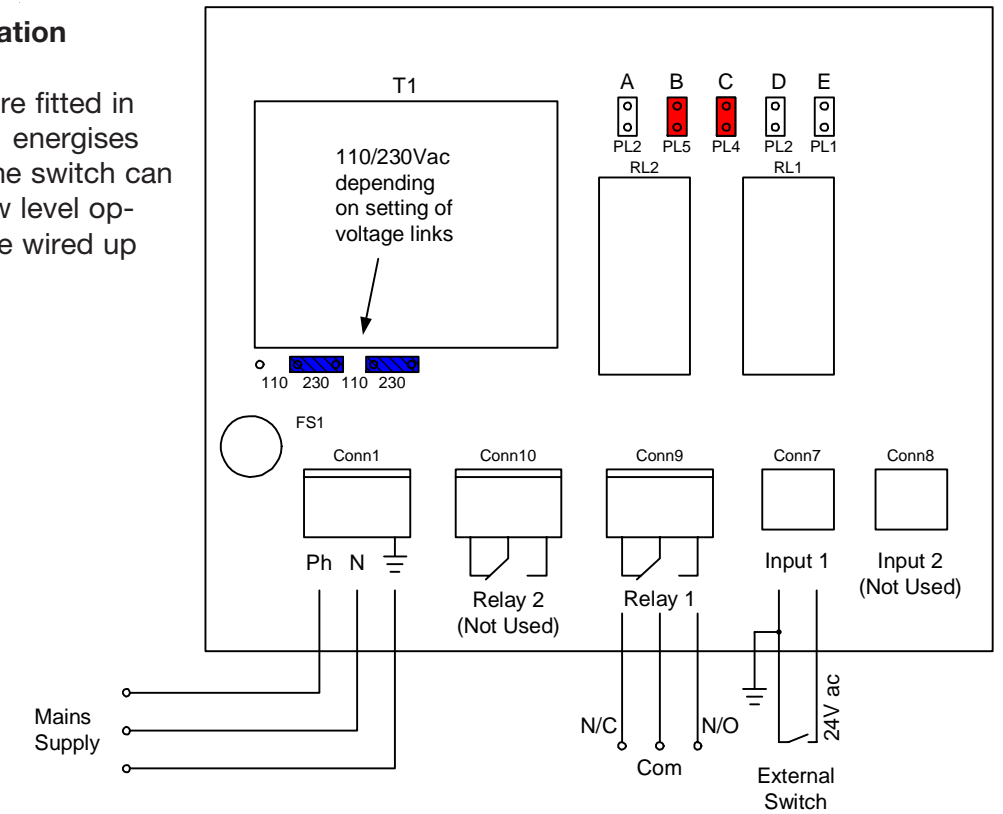


Note: The external switches may only be commoned on the earth side.



5.3 Single Switchpoint Operation

The mode selection links are fitted in positions B and C. Relay 1 energises when the switch closes. The switch can be set for either high or low level operation. The PCB should be wired up as shown.



Note: The external switches may only be commoned on the earth side.

Dimensions

