

## Replacement Programme for products TFS(RLY, MA, SRV) ERO - 7EF, 7EC, 7ES B&C

This document has the scope to inform about the main differences between the old TFS product family and the more recent TKS family since the latter is going to replace the old one.

### 1. Common features:

The two product families, in all versions ( relay - mA – servo), utilize the same Terminal Board and have the same terminal numbering, assignment and positions; also the terminal unit is mechanically interchangeable and, as a consequence, in case of field replacement the terminal board can be kept instead of rewiring the new instrument.

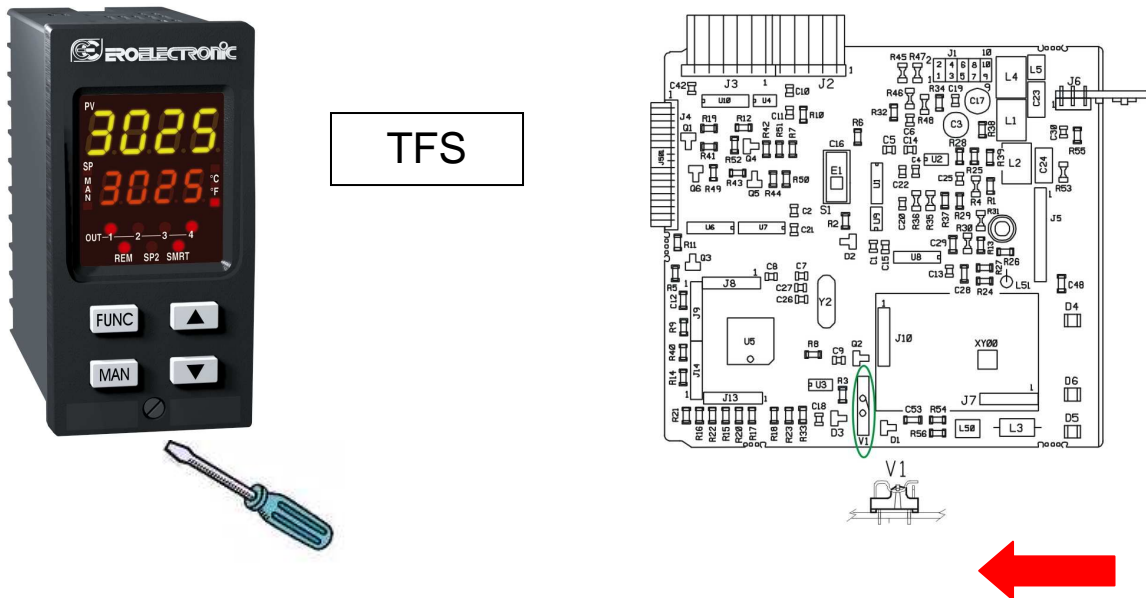
The configuration and operation parameters are exactly the same in the two product families.

The instruments can be operated in the same way.

“HOW to Orde”r Coding are equivalent and can be exactly derived from one another replacing the TFS prefix with the TKS.

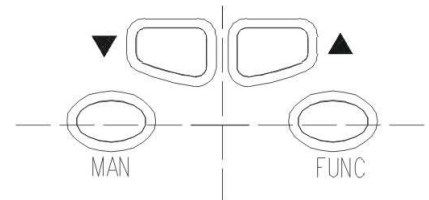
Here after we are listing the differences between the two product families:

### 2. How to access the Configuration and Calibration parameters.



**TFS:** to access **Configuration/Calibration** mode (from operation mode) requires removing the instrument via unscrewing the front fixing screw and opening of jumper V1. To access operation mode it is necessary to re open the said jumper.

**TKS:** There is no need to remove the instrument to access **Configuration/Calibration** mode. It is just necessary to push, in the same moment, for a few seconds, the pushbuttons **MAN** and **FUNC** to enter ConF menu. ConF has one mode for visualization and one mode for modification of parameters. Parameter setting can be password protected ( see installation manual).



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### 3. Front Panel appearance

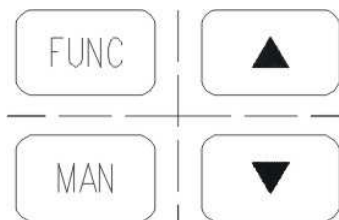
The two families have different OUT 1,2,3,4 printing and different beacon position ( see figure below). The pushbuttons are placed in a different way but have same description and positions.



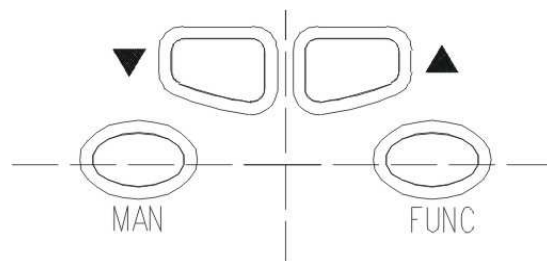
TFS



TKS



TFS

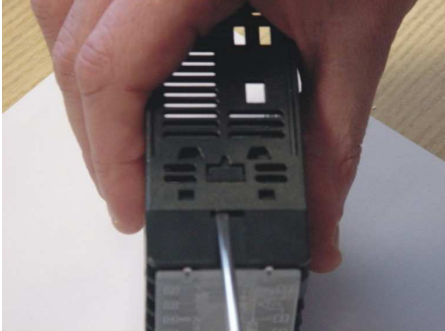


TKS

#### 4. Interchangeable Terminal Board

The two product family include the supply of a same Terminal Board; as a consequence, it is possible to avoid re-wiring when replacing a TFS with a TKS unplugging and reusing the old terminal board as illustrated.

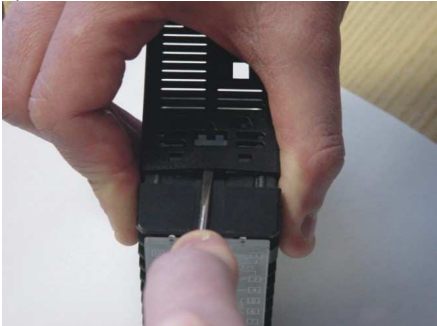
a) Insert screwdriver into the Terminal Board as indicated:



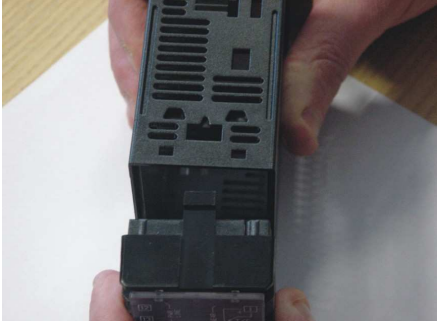
b) Lift the plastic housing .



c) Unlock and remove Terminal Board :



d) Terminal Board removed form instrument housing:



#### 5. Housing fitting

The two product family have different fitting between housing and instrument and, as a consequence, the housing, apart the terminal board, are not interchangeable.