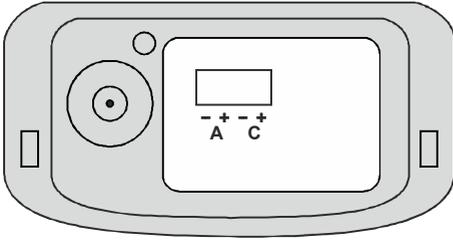# Eltek TU1021 - Instructions for the GC-60Y enhanced count transmitter

The **GC-60Y** provides two count inputs.

Application: to monitor the opening and closing of one or two contacts e.g. door or window magnet activated contact, with additional information if required.

Basic Functionality (Channels A, B, C and D)
Provides accurate counting and duration of open/close events for one or two doors where the events are >1 second in duration.

Enhanced Functionality (Channels A, B, C, D, E and F)
Designed for an application with two doors which are linked by a particular relationship (e.g. the outer and inner doors in a public building). Includes the functionality detailed above but provides additional data about the relationship between the states of the two doors.

The two physical inputs detect the switch conditions (low resistance). The switch could be a reed switch and magnet or contact switch.
The GC60Y counts the number of seconds for the open periods. The GC60Y can then process the inputs to calculate combinations of values transmitted to the receiver logger as virtual channels.
The GC60Y can occupy up to 6 channels on the logger (2 real and 4 virtual). Transmitter channels are allocated A through F with the following functionality:

- **Channels A and C** are physical inputs indicating the number of open and close events of the door contact.
- **Channels B and D** are one second counters to provide the accumulative total of how long the door contacts on channels A or C were open.
- **Channel E** counts (accumulates) the number of times both doors are open together
- **Channel F** is a one second counter for channel E showing accumulative total of how long both doors were open together and is shown in seconds.

Note: Doors have to be open for no less than one second to be counted. The count takes place on the (contact) closed to open transition.

Time/Count will increment when inputs A or C are "open" (transmitted as a "1")
Note: in Transmitter Set Up (part of Darca software) all inputs have a single option (drop down) labelled "Pulse Count."

Note: When renewing batteries and especially if transmitter is no longer operating ensure you allow one minute with no batteries connected before installing new batteries. This is to ensure transmitter performs a power on reset