



Batch Controller-Presettable Counter

DigiFlow 514

Functions

- Full scaleable input signals 4 - 20mA analog or frequency.
- Display of rank total value, preset quantity, flow rate and accumulated quantity
- Two relay outputs for either slow and fast run or two flow channels.
- Automatic overrun compensation
- Alert at signal fault.
- Remote Start-Stop.
- Simplified programming
- Three languages user interface
- RS232-protocol interface.

The backlit two rows alphanumeric display shows the instantaneous readings of Flow or Totals, and the four key touchpad it is used to program, configure and control the unit.

The **DigiFlow 514** has per default one analog input 4 – 20 mA , as well as a frequency input for flow signal.

Furthermore each **DigiFlow 514** is equipped with one scaleable pulse output, assigned the accumulated total, for control of external counters, and a RS232 interface to output a rank protocol to printer or host, or remote controlling the unit.

The **DigiFlow 514** is powered by AC of 115/230 VAC 50/60 Hz, optionally voltages between 24 and 28 V AC/DC.

The **DigiFlow 514** provides an adjustable voltage of 17 to 19V DC for powering transmitters. Maximum current is 100mA.

Inputs:

Since the **DigiFlow 514** scaleable integrates any physical unit which is converted into 4-20mA analog or frequency signal, the user have to enter a dimension text with up to 5 characters length.

The input signals aren't converted only linearly. Also nonlinear relationships of input-to output quantity can be programmed. Additional to the predefined exponents of the



conversion curve for linear, square or square root relationship of $y = A^E$, a free setable exponent can be entered. If none of these conversion terms describes exactly the relationship between input and output, a 12 point correction curve can be programmed.

Outputs:

The filling facility is controlled by two relays. The first one is switched on the whole filling time and the second one can be switched on after a setable time delay and switched off a setable quantity before filling end. Two relay outputs are available for rank end and flow alarm furthermore. The pulse output for external counters is executed as digital output with NPN-Open Collector characteristics.

Special features of the program:

Overrun compensation:

From the last filling operations is a corrected switch off point calculated, so that at further ranks the programmed quantity is more exactly reached.

Automatic Restart:

The unit can be configured to start a new batch after a setable time after ending the previous batch.

Count Direction:

The unit can be programmed to count up to batch quantity or down to zero..

