

THE 4545 1/16 DIN COUNTER

The Veeder-Root 4545 is a new family of full featured dual LED display counters.

Setting new standards of performance and functionality in a compact 1/16 DIN package.

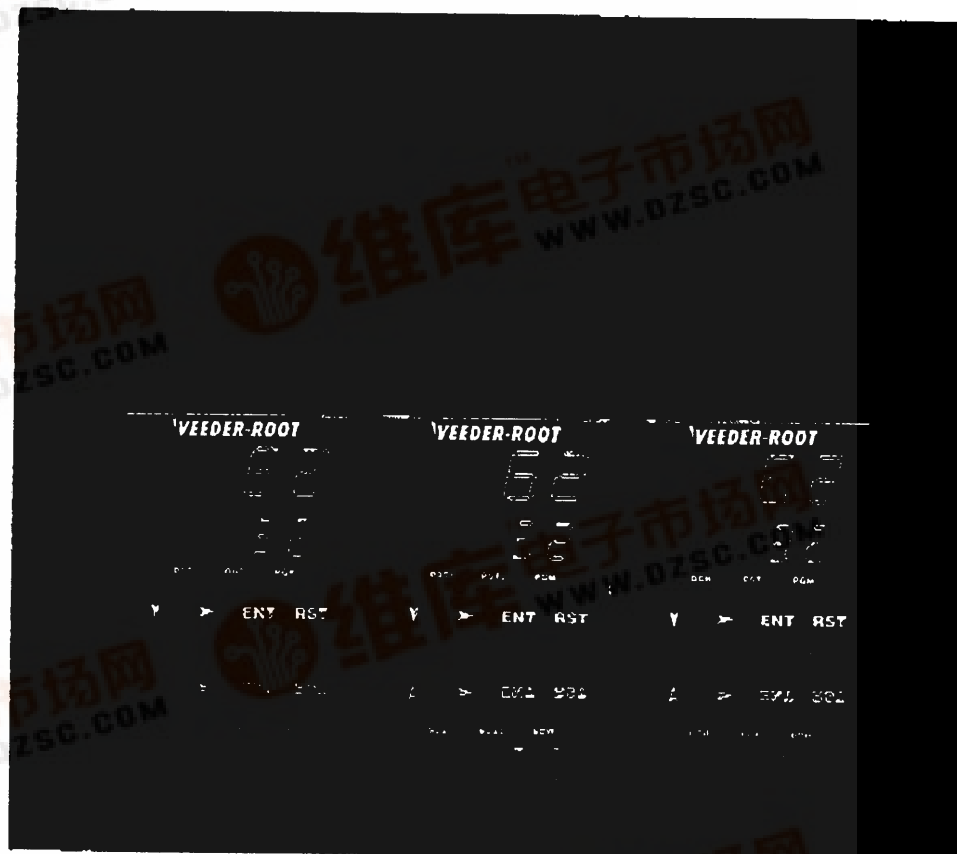
Three models offer single preset or dual preset count capability, or a single preset counter with a presettable batch counter. The batch counter can be configured as an 8 digit single preset up counter.

The bright dual LED display provides simultaneous count and preset information. The use of annunciators and simple key sequences makes operator changes quick and easy.

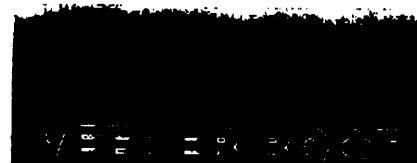
All models have a max input count speed of 10kHz which is not degraded when using the digital count prescaler.

Both relay (SPDT) and open collector outputs are provided for easy connection to external controlled equipment. Full configuration of the counter is made via the front panel - there are no DIP switches.

With universal mains input, inputs for most sensor types, programmable digital filters, and a host of other features, the Veeder-Root 4545 is the counter for most applications.



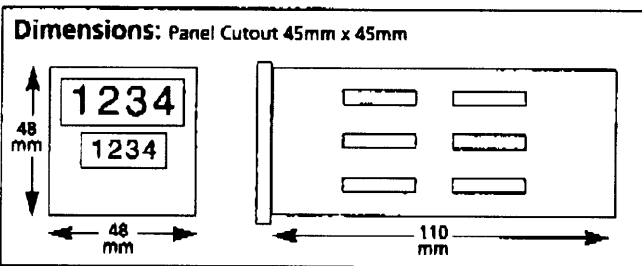
- Dual four-digit LED displays for Count and Preset values
- 10kHz count speed
- Add/subtract or bidirectional count inputs
- Digital calibrator and programmable decimal point
- Accepts current sinking or sourcing devices
- Key reset, remote reset and auto reset modes
- Reset to zero or preset number
- Relay (SPDT) and open collector outputs
- Accessory sensor power supply
- Universal 90 - 264VAC power requirements
- IP65 sealed front panel
- Designed to comply with EN50081 and EN50082 EMC specifications



VEEDER-ROOT 4545

431-936

| SPECIFICATIONS: | | | |
|--|--|--|-----|
| INPUT POWER: | | | |
| Ex version | 90 to 264 VAC | 50/60Hz | 4VA |
| Ex2 version | 20 to 50 VAC | 50/400Hz | |
| | 22 to 65 VDC | | |
| ACCESSORY POWER: | | | |
| 12VDC +/- 25% at 100mA (+V) | | | |
| COUNTER OPERATION: | | | |
| Decades | 4 | | |
| Presets | E1/E12 | 1 Preset | |
| | E2/E22 | 2 Presets | |
| | E3/E32 | 1 Preset + 1 Batch Preset + 8 digit single preset mode | |
| Count Modes | | | |
| Add / Subtract | Input A adds, B subtracts | | |
| Bidirectional | Inputs A and B in quadrature | | |
| Reset Modes | Manual or Automatic Select Reset to Zero or Reset to Preset 1 | | |
| Count Rate | High Speed | DC to 10kHz* | |
| | Medium Speed | DC to 200Hz | |
| | Low Speed | DC to 20Hz | |
| | Input response set by programmable digital filter *5kHz for quadrature | | |
| Input Logic | x 1 | | |
| Calibrator | x 0.001 to 9.999 common to inputs A and B | | |
| DISPLAY: | | | |
| Upper Display | LED 4 Digit 10mm High | | |
| Lower Display | LED 4 Digit 7mm High | | |
| Annunciators | E1/E12 PST, OUT, PGM E2/E22 PST1, PST2, PGM, 1, 2 E3/E32 PST, BCH, PGM, 1, 2 | | |
| Decimal point | x.xxx to xxx.x | | |
| KEYBOARD: | | | |
| Sealed tactile response four positions | | | |



| | | |
|--|---|----------------|
| SIGNAL INPUTS: | | |
| | Source | Sink |
| Input High (volts) | >3.0 | >3.0 or open |
| Input Low (volts) | <2.0 or open | <2.0 |
| Input Impedance (ohms) | 10K/com | 4.7K/+V |
| Input Response | HS 0.1ms | 0.1ms |
| | MS 2.5ms | 2.5ms |
| | LS 25.0ms | 25.0ms |
| CONTROL INPUTS: | | |
| Input High (volts) | >3.0 or open | |
| Input Low (volts) | <2.0 | |
| Input Impedance(ohms) | 4.7K/+V | |
| Input Response | 25.0ms | |
| Remote Reset - edge sensitive | | |
| Program Enable - level sensitive | | |
| OUTPUTS: | | |
| Number | 1 for E1/ E12 2 for E2/E22 and E3/E32 | |
| Solid State | Open Collector current sink to common. 30VDC max 100mA max | |
| Relays | Changeover contacts (Form C) 5A resistive at 110VAC 3A resistive at 240VAC | |
| Hold Time | Either output may be latched or momentary, duration from 0.01 to 99.99 seconds | |
| PROGRAMME SECURITY: | | |
| 3 Programmable levels or none | | |
| 1 Rear terminal key switch (link) input | | |
| Programme and running variables stored in EEPROM during power down | | |
| ENVIRONMENTAL: | | |
| Operating Temp | 0 to +55°C | |
| Storage Temp | -20 to +80°C | |
| Ambient Humidity | 20-95% non-condensing | |
| MODEL NUMBERS: | | |
| V45450E1 | 1 Preset | } 90 - 264 VAC |
| V45450E2 | 2 Preset | |
| V45450E3 | 1 Preset + Batch Pst | |
| V45450E12 | 1 Preset | } 20 - 50 VAC |
| V45450E22 | 2 Preset | |
| V45450E32 | 1 Preset + Batch Pst | |

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