

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.

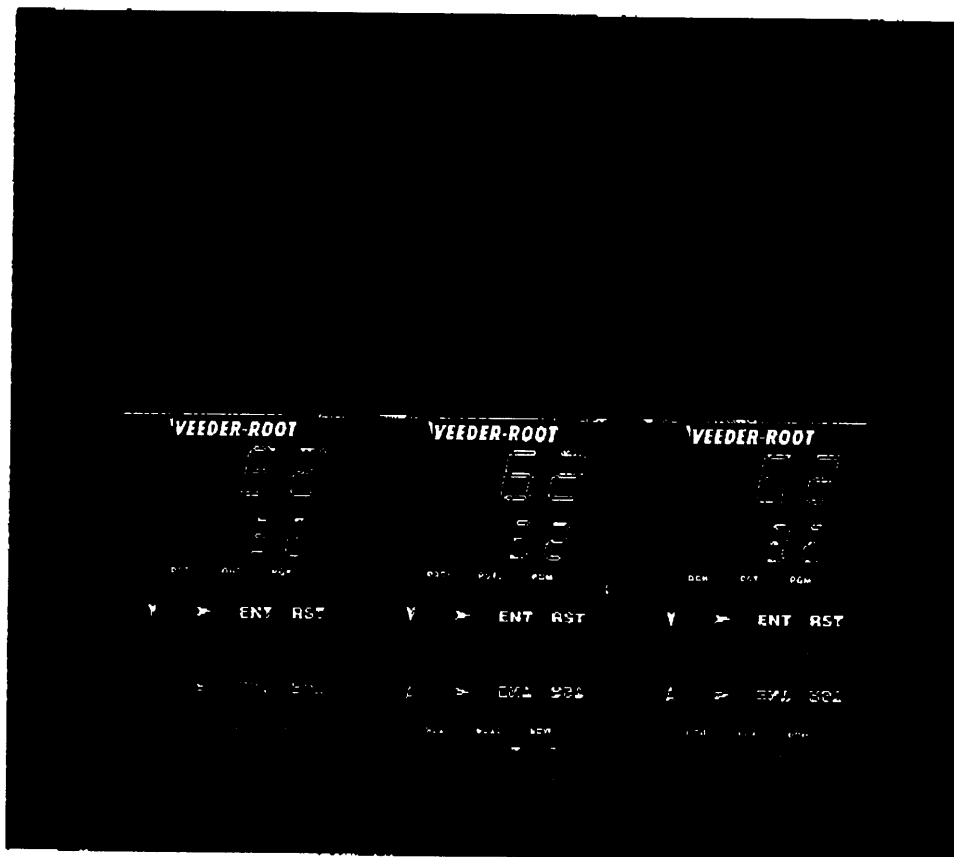
Three models offer single preset or dual preset count capability, or a single preset counter with a presettable batch counter. The batch counter can be configured as an 8 digit single preset up counter.

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 MS 2.5ms LS 25.0ms	0.1ms 2.5ms 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:

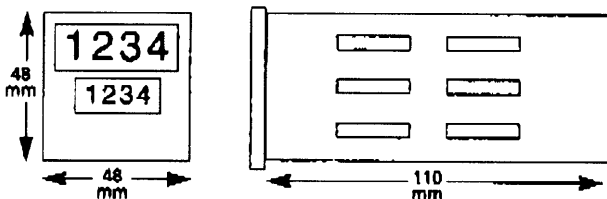
3 Programmable levels or none
1 Rear terminal key switch (link) input
Programme and running variables stored in EEPROM during power down

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	

Dimensions: Panel Cutout 45mm x 45mm

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