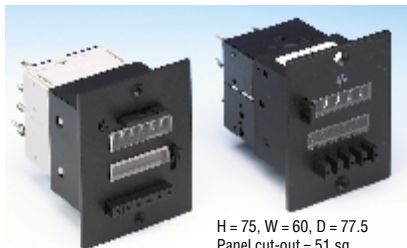


## Electromechanical Counters — continued

## 5/6 Digit Presettable — FE514-6, FE319-55



H = 75, W = 60, D = 77.5  
Panel cut-out = 51 sq.  
Fixing centres = 63



- Manual 6 digit and electrical presettable 5 digit counters with reset facility
- Counters count from zero to the preset figure
- SPDT contacts (2A @ 240Vac)
- Push-on solder connectors supplied

The following accessories are available:

**Wiring socket:** The socket plugs onto the rear of the counter, and is suitable for both manual and electrical/manual types. Rear connections are suitable for soldering or 2.8 0.8mm push-on connectors.

**Transparent cover:** A dust and splashproof cover with transparent window, allowing operation of pushbuttons. The cover consists of a metal frame, gasket, flexible transparent window and fixing hardware and gives protection to **IP55**

Manual Reset Types	24V dc	110V ac, 220/240V ac
Max count speed	20 ips	10 ips
Power	2.2W	2.4VA
Min. pulse length	25ms	50ms
Min. pause between pulses	25ms	50ms
Duty cycle @ 25°C	100%	100%
Voltage tolerance	±10%	±10%

Electrical/Manual Reset Types	24V dc Count Coil	Reset Coil	110V ac, 220/240V ac Count Coil	Reset Coil
Max count speed	20 ips	—	10 ips	—
Power	4W	22W	5VA	25VA
Min. pulse length	25ms	250ms	50ms	250ms
Min. pause between pulses	25ms	9 reset pulse	50ms	9 reset pulse
Duty cycle @ 25°C	100%	*10%	100%	*10%
Voltage tolerance	±10%	±10%	±10%	±10%

\*Note: Power should not be applied to reset coil for more than 1 minute.

To preset the counter, depress the reset button and key in the desired figure. Release the button. The preset buttons are then locked which prevents accidental alteration of the preset figure. No counting pulses can be received while the counter is being reset. Reset of the manual unit is achieved by pressing the reset button, reset of the electrical/manual unit is operated by an external pulse

Mfrs. List No: FE514.650AB3C = 103-937, FE514.650AB8C = 103-949, FE514.650AB9C = 103-974, FE319.55.24VDC = 177-488, FE319.55.110VAC = 177-489, FE319.55.240VAC = 170-556, 025.03.050 = 177-492, Z100-2 = 170-559, 025.01.047 = 186-650

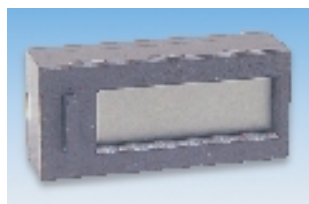
36X

Voltage	Order Code	1+	5+	10+	25+
<b>Manual Reset Counters — 6 digit</b>					
24V dc	.103-937				
110V ac	.103-949				
220/240V ac	.103-974				
<b>Electrical/Manual Reset Counters — 5 digit</b>					
24V dc	.177-488				
110V ac	.177-489				
220/240V ac	.170-556				
<b>Accessories</b>					
Wiring Socket (5 digit timers)	.177-492				
Wiring Socket (6 digit timers)	.186-650				
Transparent cover	.170-559				

## Electronic Counters

8 Digit Totaliser — Add/Subtract  
Miniature PCB Mounting, Resettable

VEEDER-ROOT



H = 16.5 (above PCB incl. button), W = 47, D = 21

Supply voltage	2.5 to 3.4V dc
Current consumption	5µA typ., 10µA max @ 10kHz
Display	8 digit LCD, 8mm character height
Operating temperature	-10°C to +50°C

- Miniature resettable add/subtract totaliser counter suitable for PCB mounting
- Count resettable either by reset button or external contact
- Unit operates from 3V dc external supply
- Connections are 6 PCB pins on 0.1" pitch



## Connections

- 1: Electronic count input 10kHz max. TTL/CMOS compatible
- 2: Contact closure/open collector count input, 30Hz max debounced.
- D: Direction, electronic input TTL/CMOS compatible, Add - logic 1 (VS), Subtract - logic 0 (OV)
- R: External reset, contact closure/open collector, min. pulse 15ms+: Positive supply
- : Supply OV and signal common.

Mfrs. List No. VR799988-412

84X

Order Code	1+	10+	25+	100+
.254-769				

## 6 Digit Totaliser — Type 210

CURTIS



H = 24, W = 48, D = 25 (overall)  
Panel cut-out = 22.2 45

## Connections:

- 1 Supply +ve (common)
- 2 Reset
- 3 Count
- 4 Supply -ve

Supply voltage	12-48V dc (nom), 9V dc (min), 60V dc (max)
Display	6 digit LCD, 5mm height
Count frequency	500Hz (max)
Operating temperature	-30°C to +65°C

Mfrs. List No. MC122-151 = 516-260, MC122-150 = 516-272

88

Type	Order Code	1+	5+	10+	25+	50+
Electrical reset only	516-260					
Manual and electrical reset	516-272					

## 7 Digit Totaliser — H7E-CB

OMRON



- Totaliser counter 7-digit LCD for front panel mounting
- Count and reset inputs by contact closure or open collector transistors
- High speed counting up to 1kHz
- Connection is by screw terminals

H = 24, W = 48, D = 49 (behind bezel)  
Panel cut-out = 22.2 45

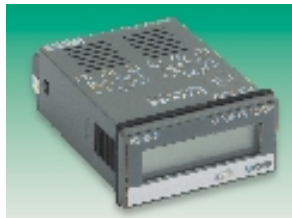
Display	7 digit LCD	Connections:	
Character height	6mm	Count input	External short circuit 1 & 2
Internal power supply	Battery with 6 year minimum life	Reset input	External short circuit 3 & 4
Count rate:	Transistor input 1kHz max.	Mfrs. List No.	H7E-CB

37X

Count Rate	Order Code	1+	5+	10+	25+	50+
1kHz	170-973					

## 8 Digit LCD Totaliser

Crouzet



H = 21, W = 48, D = 67

- 8-digit LCD display (7mm high digits)
- Counting input: solid state (4-30V dc) or voltage (up to 240V ac)
- Max. counting speed 7.5kHz
- Lithium battery supply (with isolation switch)
- Panel or remote reset with inhibit facility
- Front panel protection to **IP66**

21

Input type	Mfrs. List No.	Order Code	1+	5+	10+	25+	50+
Solid state	87610040	717-1031					
Voltage	87610050	717-1043					