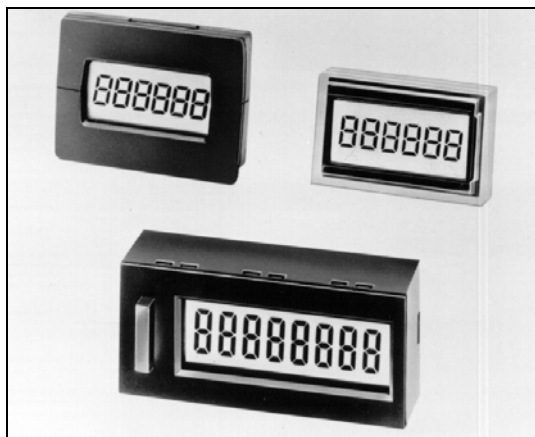# MicroCount Series

FEATURES:

- Miniature pre-designed totalizer for OEMs
- High contrast LCD display
- Low power consumption ideal for long life battery powered applications
- Can be directly mounted to a PC board
- Count speeds up to 10k Hz
- UL and CSA listed
- RoHS (upon request) & $C\epsilon$ Compliant

APPLICATIONS:
- Amusement Machines • Copiers and Printers
- Dispensing Machines • Portable Equipment
- Ticket Machines • Utility Meters
- Applications: For use without a power source

DESCRIPTION:

The **MicroCount I & I/AS** are 6 digit counters that can be panel or PCB mounted (a black panel mount bezel is included). They are housed in clear, polycarbonate, plastic and connections are made by five pins. The MicroCount I is a totalizing counter and the I/AS is an add/subtract counter.

The **MicroCount II** is an 8 digit, totalizing, add/subtract counter that can be surface or PCB mounted. Two versions are available: the "IIR" with front push button reset or the "II" without push button reset. The counter is housed in black, polystyrene, plastic and connections are made by six pins.
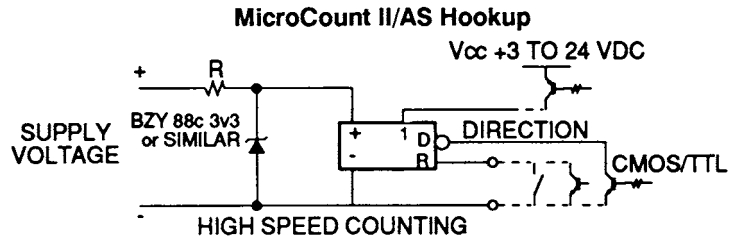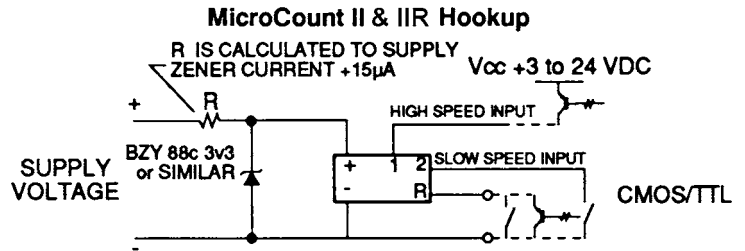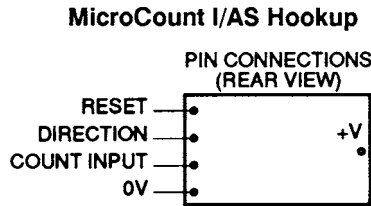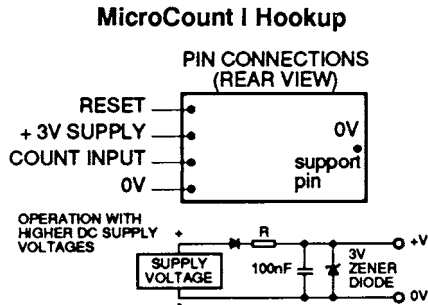
The **MicroCount III & V** are 4 and 6 digit battery powered totalizing counters. It has leads for remote contact and increments on contact open. A black panel mount bezel is included.
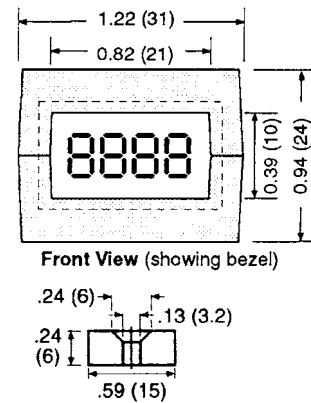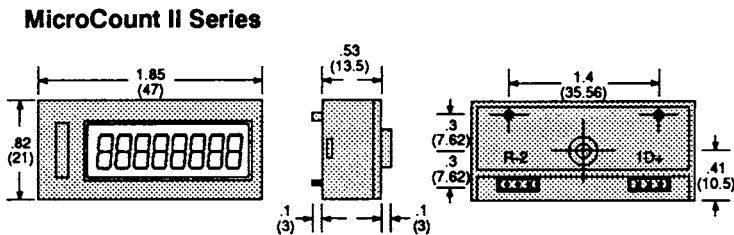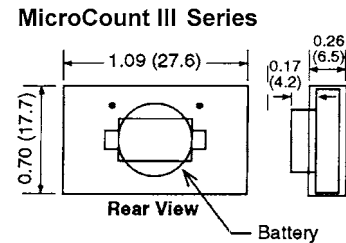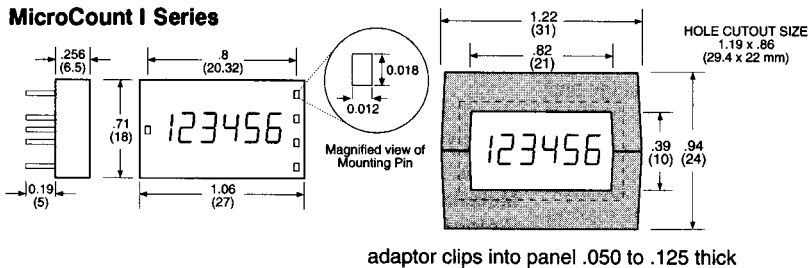
SPECIFICATIONS:

Model	MicroCount I MicroCount I/AS	MicroCount II MicroCount IIR	MicroCount III	MicroCount V
Function	Totalizer /AS = add/subtract	Totalizer add/subtract	Totalizer	
Display	6 digit, high contrast LCD, 6mm (0.2") characters	8 digit, high contrast LCD, 8mm(0.315") characters	4 digit, LCD, 6mm (0.2") characters	6 digit, LCD, 6mm (0.2") characters
Voltage Supply	2.6 to 3.4 VDC		1.5V button cell 386 or SR43 battery, 3-4 year (supplied)	
Power	5 μA typical, 10 μA at 10k Hz (MicroCount I: 15 μA)			
Count input	1) High speed solid state: Negative edge triggered 0.7 volt threshold, +18 VDC max. input, TTL and CMOS compatible. 2) (MicroCount II or IIR only) Slow speed non-voltage: Contact closure or open collector transistor		Non-voltage: Contact closure, operates on contact open	
Count speed	High speed solid state: 10k Hz max. rate (min. on/off time 50μsec.). Slow speed non -voltage: 30 Hz (min. on/off time 15mSec).		12 Hz max.	
Direction	Add = logic 1, subtract = logic 0 (0V)			
Reset	1) Non-voltage: contact closure or open collector, TTL and CMOS compatible (min. pulse 15mSec). 2) Front push button: MicroCount IIR only		Reset on insertion of battery	
Housing	Clear polycarbonate plastic Black ABS bezel	Black polystyrene plastic	Clear polycarbonate plastic Black ABS bezel	
Mounting	PC board or panel w/ bezel	PC board or surface mount	Panel mount w/ bezel	
Connection	5 PC board pins	6 PC board pins	2 Leads	
Temperature	Operating: +14 to +140 °F / -10 to + 60 °C Storage: -14 to +158 °F / -20 to +70 °C		Operating: +14 to +122 °F / -10 to + 50 °C Storage: -14 to +140 °F / -20 to +60 °C	
Weight	0.26 oz / 7.4 g	0.5 oz / 14.2 g	0.26 oz / 7.4 g	
Approval	UL, CSA and CE		CE	

![FARGO CONTROLS, INC.]

Counter

WIRING:

MicroCount I Hookup

PIN CONNECTIONS
(REAR VIEW)

RESET
+ 3V SUPPLY
COUNT INPUT
0V

0V
support pin

OPERATION WITH
HIGHER DC SUPPLY
VOLTAGES

SUPPLY VOLTAGE — R — 100nF — 3V ZENER DIODE — +V / 0V

MicroCount I/AS Hookup

PIN CONNECTIONS
(REAR VIEW)

RESET
DIRECTION
COUNT INPUT
0V

+V

MicroCount II & IIR Hookup

R IS CALCULATED TO SUPPLY
ZENER CURRENT +15µA   Vcc +3 to 24 VDC

HIGH SPEED INPUT

SUPPLY
VOLTAGE   BZY 88c 3v3
or SIMILAR

+ 1   2 SLOW SPEED INPUT
-     R   CMOS/TTL

MicroCount II/AS Hookup

Vcc +3 TO 24 VDC

SUPPLY
VOLTAGE   BZY 88c 3v3
or SIMILAR

+ 1 D DIRECTION
R   CMOS/TTL

HIGH SPEED COUNTING

DIMENSIONS: inches (mm)

MicroCount I Series

.256 (6.5)   .8 (20.32)   0.018 / 0.012
Magnified view of Mounting Pin

.71 (18)   123456

0.19 (5)   1.06 (27)

1.22 (31)   .82 (21)

HOLE CUTOUT SIZE
1.19 x .86
(29.4 x 22 mm)

123456   .39 (10) .94 (24)

adaptor clips into panel .050 to .125 thick

MicroCount III Series

1.09 (27.6)   0.17 (4.2)   0.26 (6.5)

0.70 (17.7)

Rear View
Battery

1.22 (31)
0.82 (21)

8888   0.39 (10) 0.94 (24)

Front View (showing bezel)

.24 (6)   .13 (3.2)
.24 (6)   .59 (15)

MicroCount II Series

1.85 (47)   .53 (13.5)   1.4 (35.56)

.82 (21)   88888888

.3 (7.62) R-2 1D. .41 (10.5)
.3 (7.62)

.1 (3)   .1 (3)

Ordering information:

Model	Description
MicroCount I	Totalizer
MicroCount I/AS	Totalizer, add/subtract
MicroCount PMB	Panel mount bezel for MicroCount I
MicroCount II	Totalizer, add/subtract
MicroCount IIR	Totalizer, add/subtract, button reset
MicroCount III	Self powered totalizer with leads
MicroCount V	Self powered totalizer with leads