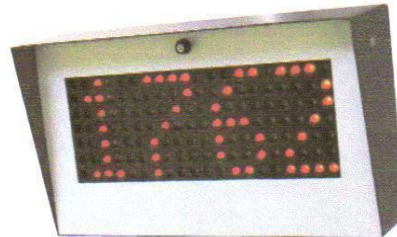


VMS & CAPACITY COUNTERS

THE CT220 FAMILY OF CAPACITY COUNTERS TOGETHER WITH THE VARIABLE MESSAGE SIGN (VMS) ARE PRIMARILY DESIGNED TO MONITOR AND DISPLAY THE NUMBER OF SPACES AVAILABLE IN A CAR PARK AT ANY GIVEN TIME, AND TO PROVIDE RELATIVE INFORMATION TO CAR PARK USERS AT SUITABLE LOCATIONS.

THE MICROPROCESSOR BASED CAPACITY COUNTERS MONITOR RELAY PULSES USUALLY FROM LOOP DETECTORS TO EITHER INCREMENT OR DECREMENT THE COUNTER DEPENDING UPON WHETHER THE DETECTOR IS AT AN EXIT OR ENTRANCE.

THE VARIABLE MESSAGE SIGN (VMS) DISPLAY IS A LARGE 4-DIGIT, LED DISPLAY HOUSED IN AN OUTDOOR ENCLOSURE THAT PROVIDES CLEAR VISIBILITY OF THE AVAILABILITY OF CAR PARKING SPACES.



VARIABLE MESSAGE SIGN (VMS) & CAPACITY COUNTERS PARKING MANAGEMENT SYSTEM



CT220



CT220P

Features

CT222/CT224

- Monitors available car parking spaces
- Large, clear display - 4 digit, 7 segment
- Total count capacity of from -999 to 9999
- Simple programming via two multi-function push buttons
- Two up-count and two down-count inputs
- Output relay when car park is full to drive traffic lights or a VMS
- Buffered & filtered inputs
- Power fail memory retains displayed data for at least one hour following a power failure; typical data retention is one day
- Manual override for output relay

CT222P/CT224P

As CT222 but includes:

- Panel Mount housing
- Count value output (RS485) to drive VMS

VMS

- Large 4 digit LED display
- Full/open message display option
- Available spaces display option
- Outdoor enclosure
- Low voltage operation
- Tilting mounting brackets included

Applications

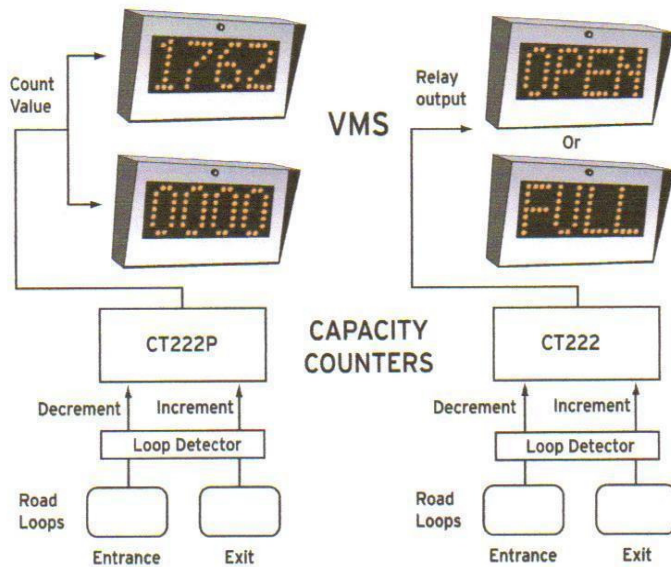
- Parking garage total capacity counting
- Parking garage floor space counting
- Vehicle counting
- Industrial counting
- Any car parking application where the number of available spaces needs to be monitored
- Any car parking applications where automatic customer feedback of car park status is required

Issue 001

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TECHNICAL SPECIFICATIONS



Technical Specifications

CT220 SERIES CAPACITY COUNTERS

Input Protection:	Optical isolation voltage 2500V rms Spike filter on all inputs to protect against induced voltages on long input lines
Input Actuation:	By contact closure (min 50ms)
Integral Display:	4 digit, 7 segment LED (10mm high)
Maximum Count:	-999 to 9999
Output relay:	Change-over contacts (5A @ 230V AC)
Output Comms	CT222P/CT224P - RS485
Controls:	2 multi-function push buttons
Power Requirements:	CT222/CT222P: 230V AC +15% (48 to 60 Hz) 1.5VA Maximum @ 230V CT224/CT224P: 12-12V AC/DC
Operating Temperature:	-40°C to +65°C
Housing:	CT222: High heat ABS Blend CT222P: Durethon
Dimensions (mm):	CT222: 76 x 40 x 78 (L x W x H) CT222P: 122 x 72 x 48 (L x W x H)
Mounting:	CT222: Shelf or DIN-rail socket CT222P: Panel Mount
Connector:	CT222: Single rear mount 11-pin submagnal CT222P: 10 way Terminal Block

VARIABLE MESSAGE SIGN (VMS)

Power Requirements:	9 to 24V DC (250mA @ 12 volts).
Display:	20 x 7 LED matrix giving 4 character display.
Viewable angle:	20° each side of centre.
Mounting:	Options for mounting directly on a flat surface or by using brackets (included) to enable up or down tilt for wall and pole mounting (3" diameter).
Operation:	'FULL' / 'OPEN' display or variable numeric display from RS232/RS485 input
Viewable distance:	5-20 metres depending upon lighting conditions. Positioning facing direct sunlight is not recommended.
Housing:	Black powder coated Zintec.
Dimensions (mm):	380 x 205 x 120 (W x H x D).

Order Information

CT222	Capacity Counter
CT222P	Panel Mount Capacity counter
CT224	Capacity Counter (low voltage)
CT224P	Panel Mount Capacity counter (low voltage)
VMS	Variable Message Sign

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