

PSC-1 Parallel BCD to Serial Converter



- Reduces installation and wiring costs *
- Simple to install *
- Detachable screw terminals *
- Powered by host display *
- High noise immunity *

The PSC1 converts your multiparallel BCD data into 3 wire RS422 serial Data. This makes wiring easier and cuts installation and cabling costs wherever BCD data is to be sent to a remote device such as a large display. Our S1700 series connects directly to the PSC1.

<p>Input Signal.....</p> <p>Input resistance.....</p> <p>Resolution.....</p> <p>Open circuit input response.....</p> <p>Isolation.....</p> <p>Access speed.....</p> <p>Strobe speed.....</p> <p>Decoding.....</p> <p>Polarity.....</p> <p>Blank characters.....</p> <p>Special codes.....</p>	<p>12-24 V level BCD data. Active High. Common Negative</p> <p>4700 Ohms in series with opto-isolator LED</p> <p>up to 7 decades</p> <p>0</p> <p>200V from supply and output</p> <p>Data must be stable for at least 200uS after rising edge of strobe and 200uS after falling edge of strobe</p> <p>Strobe should be high for at least 20uS for edge triggering</p> <p>Basic 1248 input, up to 7 decades BCD, with values from 0-9</p> <p>Decades 1 to 6 can be used to transmit - by applying code 1101</p> <p>Blank character (20Hex) for decades 1-6 by applying 1100 or 1111</p> <p>The 7th decade (MSD) input may be used to obtain special formats as follows:-</p> <p>1) 6 decades plus polarity and leading zero blanking</p> <p>Set MSD as 1010 for a positive reading, 1011 for negative</p> <p>2) 5 decades, polarity and decimal point, no leading zero blanking</p> <p>Set MSD = 1100</p> <p>The 6th decade determines polarity and decimal point position ...</p> <p>The 8 bit as 0 = negative, as 1 = positive</p> <p>The 1 bit sets 1 decimal place, 2 bit 2 places, 4 bit 4 places</p> <p>for example for 6th decade = 0001, data O/P = -xxxx.x</p> <p style="padding-left: 100px;">= 1010, data O/P = +xxx.xx</p> <p>If MSD is set to 1101, the 8 bit of the 6th decade will be inverted.</p> <p>5 decades, polarity and decimal point, with leading zero blanking</p> <p>Set MSD to 1110, leading zero blanking is enabled. Decoding as for 1100</p> <p>To invert the action of the DP, set MSD = 1111</p>
<p>Output Signal.....</p> <p>Data format.....</p> <p>Output indication.....</p> <p>Transmit delay - new data to O/P.....</p>	<p>RS422 1200 Baud ASCII</p> <p>1 start bit, 8 data bits, 1 stop bit, no parity</p> <p>Power LED flashes as each string is transmitted (approx. 3 times per second)</p> <p>Nominally 300mS</p>
<p>Power Supply Requirements</p> <p>Voltage range.....</p> <p>Current consumption.....</p> <p>Power indication.....</p>	<p>11-14VDC (which may be obtained from a London Large Slave display)</p> <p>50mA nominal</p> <p>3mm red LED, pulsing approximately 3 times per second</p>
<p>Mechanical</p> <p>Mounting method.....</p> <p>Case size.....</p> <p>Weight.....</p> <p>Case Material.....</p>	<p>Free standing or surface mounting</p> <p>60mm high by 145mm long by 89mm wide in vertical format</p> <p>280 grammes typically</p> <p>UL 94V0 rated grey ABS</p>
<p>Environmental</p> <p>Operating temperature.....</p> <p>Storage temperature.....</p> <p>Humidity.....</p>	<p>0 to +50 degrees C</p> <p>-40 to +85 degrees C</p> <p>90% rh max. at 40 C, non condensing</p>

Ordering Guide:- Specify model **PSC1** and advise BCD voltage level and data polarity