

LCD Digital Panel Modules

3 1/2 Digit LCD OEM 1



- 5.5mm digit height
- 200mV full scale reading (using external calibration potentiometer)
- On-board voltage reference
- Auto-zero
- Auto-polarity
- Connection via 12 pins @ 0.05" pitch

H = 15.2, W = 21, D = 5

Accuracy	0.01% ±1 count (typical)
Linearity	±1 count (maximum)
Sample rate	3 sample/sec
Operating temperature range	0 to 50°C
Temperature Stability	200 ppm/°C
Supply voltage	7.0 to 14Vdc (9V typical)
Supply current	150µA typical

PM110

OEM 1	Order Code	Price Each		
		1+	5+	10+
	320-8084			

Ultraminiature Modules



- Programmable decimal points
- Features auto-polarity and auto-zero
- Integral snap-in bezel for easy mounting
- Supplied with connector and datasheet
- 200mV full scale reading
- Single rail option allows connection of input ground to system ground (DPM 1S, DPM 2S, DPM 3S)
- Backlit modules available

	DPM1, DPM2, DPM3	DPM1S (BL), DPM2S (BL), DPM3S (BL)
Supply voltage	7 to 14V (9V typ)	3 to 7V (5V typ)
Supply current	150µA	250µA (plus 50mA backlight)
Accuracy (±1 count)	0.1%	0.1%
Linearity	±1 Count	±1 Count
Sample rate	3 samples/sec	3 samples/sec
Temp. stability	150 ppm/°C	200 ppm/°C
Oper. temp. range	0-50°C	0-50°C

Character Height	Module Dimensions			Panel Cut-out		Pin Pitch	Mfrs. List No.	Order Code
	H	W	D	W	H			
5.5	14	30	15	28.4	11.4	2.00	DPM1	897-991
5.5	14	30	15	28.4	11.4	2.00	DPM1S	898-004
5.5	14	30	15	28.4	11.4	2.00	DPM1S-BL	330-590
8.25	17	35	15	33.0	15.0	2.00	DPM2	898-016
8.25	17	35	15	33.0	15.0	2.00	DPM2S	898-028
8.25	17	35	15	33.0	15.0	2.00	DPM2S-BL	330-851
11.0	20	40	15	38.0	18.0	2.54	DPM3	898-030
11.0	20	40	15	38.0	18.0	2.54	DPM3S	898-041
11.0	20	40	15	38.0	18.0	2.54	DPM3S-BL	330-899

For 4 to 20mA Loop Powered Meter see Order Code 331-028

PM80

Mfrs. List No.	Order Code	1+	5+	10+	25+
DPM1	897-991				
DPM1S	898-004				
DPM1S-BL	330-590				
DPM2	898-016				
DPM2S	898-028				
DPM2S-BL	330-851				
DPM3	898-030				
DPM3S	898-041				
DPM3S-BL	330-899				

PCB and Panel Mounting

High performance 3 1/2 and 4 1/2 digit LCD DPM's incorporating a selection of popular unit of measure annunciators. A range of module styles are available with a choice of character heights, including 10, 12.5 and 15mm for either direct soldering and SIL/DIL socket mounting into PCB's, or panel fixing using the mounting bezels supplied.

The modules feature auto-zero, auto-polarity, programmable decimal points, low battery indication and versions with a negative rail generator to enable the input signal to be measured reference the power supply 0V rail.

The modules are used in various instruments providing indication of voltage, current, temperature, weight etc, their low power consumption ideally suits portable instrument applications prolonging battery life.

Compact 3 1/2 & 4 1/2 Digit



3 1/2 Digit (DPM125)
SIL pins = 4 0.5 dia on 2.54 pitch



4 1/2 Digit (DPM160)



4 1/2 Digit (DPM60)

- Compact size
- Solder pad connections for selection of operation modes
- Low battery and continuity symbol or message
- 12.5mm (3 1/2 digit) or 10mm (4 1/2 digit) character heights
- 200mV FSD (3 1/2 digit), 200mV or 2V FSD (4 1/2 digit)
- 10µV resolution (4 1/2 digit)
- Display hold facility (DPM160, DPM60)
- Supplied with mounting bezels and operating instructions
- Low power consumption

Character Height	Module Dimensions			Bezel		Panel Cut-out	SIL Socket	Mfrs List No	Order Code
	H	W	D (excl. pins)	H	W				
12.5	20.4	40.5	6.7	24	48	22.2 45	12 pin	DPM125	178-650
12.5	24.8	52	6.7	30	60	27 57	20 pin	DPM160	178-651
10	35.6	68	12	36	72	33 68	20 pin	DPM60	176-792

Accuracy (±1 digit)	0.05%	0.005%
Linearity		±1 digit
Sample rate	3 readings/sec	1.6 readings/sec
Temperature stability (ppm/°C)	100	30
Supply voltage (dc)	7.5 to 15V (9V nom)	7.5 to 15V (9V nom)
Supply current	150µA	1mA
Max input voltage		±20V dc
Input leakage current		1pA typ, 10pA max
Operating temperature	0 to 50°C	0 to 35°C

PM33

3 1/2 Digit	Order Code			Price Each		
	1+	5+	10+	25+	50+	
3 1/2 Digit	178-650					
4 1/2 Digit (with hold)	178-651					
4 1/2 Digit (with hold)	176-792					

Compact 3 1/2 Digit with Annunciators 10, 12.5 or 15mm Character Height



175-944, 175-945, 175-946, 252-414, 252-426
SIL/DIL pins = 4 0.5 dia. on 2.54 pitch



175-947, 175-948

- Low power consumption
- Wide range of unit of measure annunciators
- Solder pad connections for selection of operating modes
- Front or rear panel mounting (DPM2000/S only)
- Display hold facility (DPM100/S)
- Supplied with mounting bezels and operating instruction
- SIL/DIL socket or panel mounting
- 200mV FSD