

NEW, Low-Power, LED-Display DPM's at LCD Power Levels

The superior, long-distance, all-angle "readability"
of LED-display panel meters is now available at the low power levels
of those hard-to-read LCD meters

- Current drains as low as 7mA (35mW)
- Bright red, orange or green displays
- Easily readable from 20 feet
- Single +5V supply
- 4 standard input voltage ranges
- Rugged, epoxy-encapsulated, 12-pin DIP packages*
- Panel or pc-board mountable
- Low cost! Made in the USA!

Digital Panel Voltmeters (Single +5V Supply)

Resolution	DATel Series	LED Color	Current Drain	Digit Height
3 1/2 Digits	DMS-20PC	Red	7mA	0.37"
		Red	12mA	0.56"
	DMS-30PC	Green	60mA	0.56"
		Orange	60mA	0.56"
4 1/2 Digits	DMS-40PC	Red	35mA	0.52"

* Package dimensions: DMS-20PC 1.38" x 3.88" x 0.475" (35mm x 22mm x 12mm)
DMS-30/40PC 2.17" x 3.92" x 0.56" (55mm x 23mm x 14mm)



Miniature, 4 1/2 Digit, BCD Input, Slave LED Displays

Low cost! Complete! No external components required!



DSD-40BCD Series

- Ideal for computer-based instruments
- Rugged, epoxy-encapsulated, 12-pin DIP packages
- Miniature size: 2.17" x 0.92" x 0.56"
55mm x 23mm x 14mm
- Built-in color filters and bezels
- Single +5V supply, TTL compatible
- Low-power model, 35mA (175mW)
- Large (0.52"/13.2mm), matched-intensity displays
- Choice of red, low-power red or green LED's
- Minus sign and decimal points included
- PC-board or panel mountable

Panel Meter Product Line Summary

World's smallest Digital Voltmeters
Encapsulated 12-pin DIP packages
Moisture and vibration proof

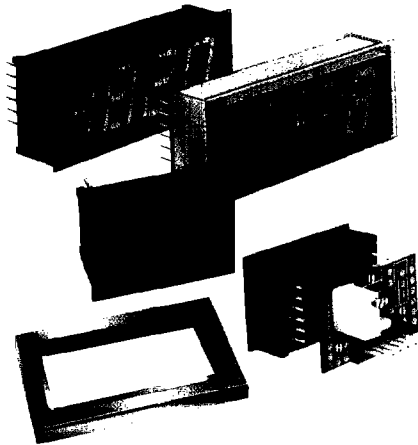
Low cost, high performance
 ± 1 count typical accuracy

Large, highly visible displays
7 bright LED colors
Backlit LCD's for day/night operation

4 standard input ranges
 $\pm 200\text{mV}$, $\pm 2\text{V}$, $\pm 20\text{V}$, $\pm 200\text{V}$

Low-power LED's - a DATEL exclusive
As low as 7mA from +5V
Ideal for portable instruments

Panel or pc-board mountable
Integral color filter bezels
Optional external bezels



Optional signal conditioning boards and accessories

DMS-EB	Multipurpose (4-20mA, gain/offset adjust, etc.)
DMS-EB2	Multipurpose board for DMS-20 Series
DMS-EB-AC/DC	For ac line-powered applications
DMS-EB-DC/DC	Provides isolated +5V power
DMS-EB-HTB	Temperature probe sensing for 200mV models
DMS-EB-LP	For 4-20mA loop-powered applications
DMS-EB-RMS	For true rms measurements of ac voltages
DMS-EB-TCJ	J-type thermocouple inputs for $\pm 2\text{V}$ models
DMS-EB-TCK	K-type thermocouple inputs for $\pm 2\text{V}$ models
DMS-BZL1	DMS-30 & DMS-40 bezel assembly
DMS-BZL2	DMS-30 & DMS-40 bezel assembly with sealing gasket
DMS-BZL3	DMS-20 bezel assembly
DMS-BZL4	DMS-20 bezel assembly with sealing gasket
DMS-20-CP	DMS-20 panel cutout punch
DMS-30-CP	DMS-30 & DMS-40 panel cutout punch

Order full-line catalog for more details

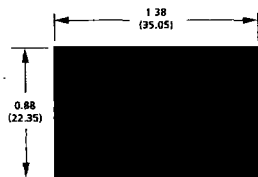
Ordering Guide

DMS-20 SERIES

3 1/2 Digit Subminiature Digital Voltmeters

DMS-20PC - 1 - R S - H		Display Hold Function (Red std. only)
LED Model	Power/Intensity	
Input Range	S Standard	
0 $\pm 200\text{mV}$	H High Intensity (Red only)	
1 $\pm 2\text{V}$	L Low Power (Red only)	
2 $\pm 20\text{V}$	LED Color	
3 $\pm 200\text{V}$	Y Yellow	R Red
	O Orange	G Green
	A Amber	

DMS-20LCD - 1 - 5 B		Add B for Backlit
LCD Model	Power Supply	
Input Range	5 +5Vdc	
0 $\pm 200\text{mV}$	9 9 to 12V Battery	
1 $\pm 2\text{V}$		
2 $\pm 20\text{V}$		
3 $\pm 200\text{V}$		



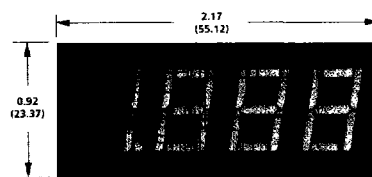
CASE DEPTH LED: 0.475 in. (12.07mm)
LCD: 0.425 in. (10.80mm)
DIGIT HEIGHT LED: 0.37 in. (9.4mm)
LCD: 0.37 in. (9.4mm)

DMS-30 SERIES

3 1/2 Digit Miniature Digital Voltmeters

DMS-30PC - 1 - R S		Power/Intensity
LED Model	S Standard	
Input Range	H High Intensity (Red only)	
0 $\pm 200\text{mV}$	L Low Power (Red, orange, and green only)	
1 $\pm 2\text{V}$	LED Color	
2 $\pm 20\text{V}$	Y Yellow	O Orange
3 $\pm 200\text{V}$	A Amber	R Red
	G Green	B Blue
	Q Aqua	

DMS-30LCD - 1 - 5 B		Add B for Backlit
LCD Model	Power Supply	
Input Range	5 +5Vdc	
0 $\pm 200\text{mV}$	9 9 to 12V Battery	
1 $\pm 2\text{V}$		
2 $\pm 20\text{V}$		
3 $\pm 200\text{V}$		



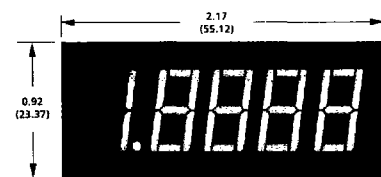
CASE DEPTH LED and LCD BACKLIT: 0.56 in. (14.22mm)
LCD: 0.43 in. (10.92mm)
DIGIT HEIGHT LED: 0.56 in. (14.2mm)
LCD: 0.40 in. (10.2mm)

DMS-40 SERIES

4 1/2 Digit Miniature Digital Voltmeters

DMS-40PC - 1 - R S - BCD		Optional BCD output (Red std. only)
LED Model	Power/Intensity	
Input Range	S Standard	
1 $\pm 2\text{V}$	H High Intensity (Red only)	
2 $\pm 20\text{V}$	L Low Power (Red only)	
3 $\pm 200\text{V}$	LED Color	
	Y Yellow	R Red
	R Red	G Green
	G Green	

DMS-40LCD - 0/1 - 5 B		Add B for Backlit
LCD Model	Power Supply	
Input Range	5 +5Vdc	
0/1 $\pm 200\text{mV}/\pm 2\text{V}$	9 9 to 12V Battery	
1/2 $\pm 2\text{V}/\pm 20\text{V}$		
2/3 $\pm 20\text{V}/\pm 200\text{V}$		



CASE DEPTH LED and LCD BACKLIT: 0.56 in. (14.22mm)
LCD: 0.43 in. (10.92mm)
DIGIT HEIGHT LED: 0.52 in. (13.2mm)
LCD: 0.40 in. (10.2mm)

Complete product line catalog, with 16 Ap Notes, can be ordered through your local DATEL representative.

