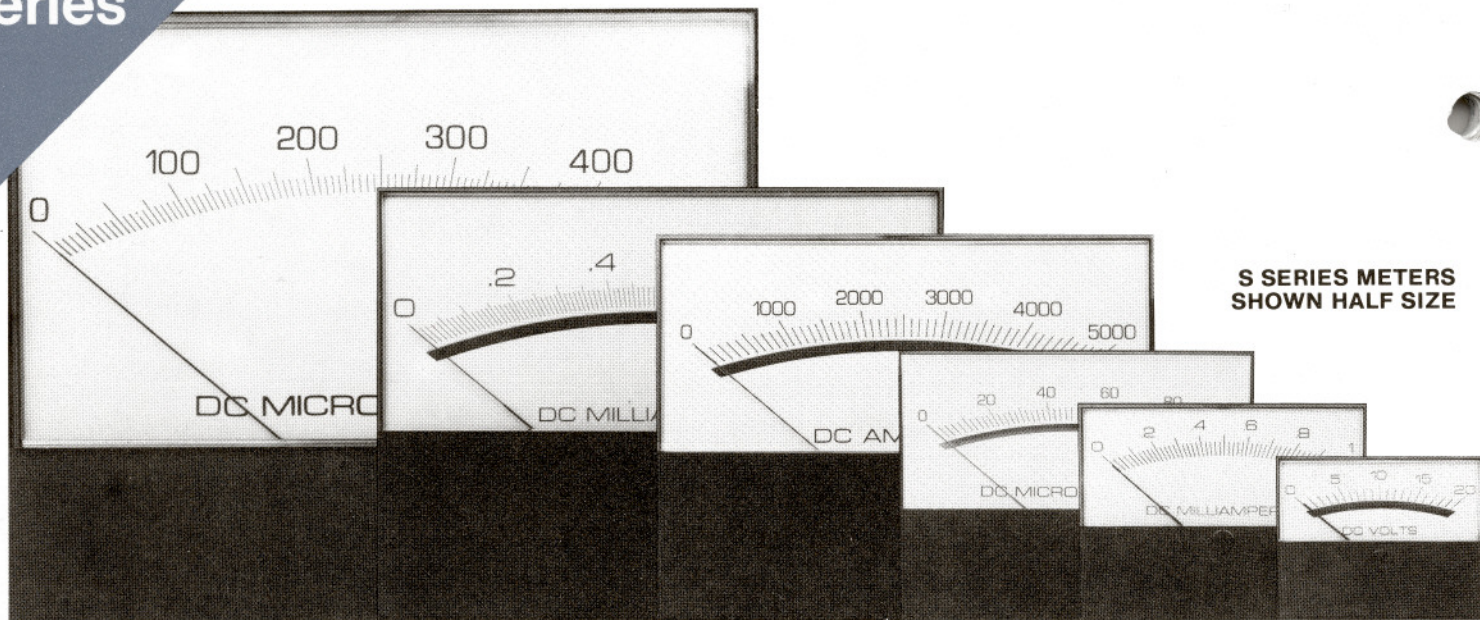


S series

PANEL METERS ~ surface mount



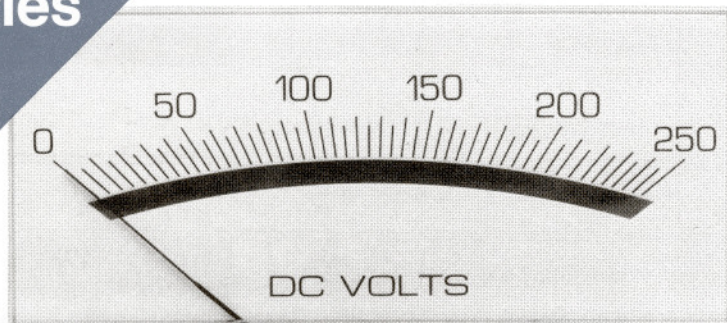
These clean-cut meters with straightforward design and pleasing aspect ratio are leaders of the Modutec line and will add distinction to any instrument or control panel. Available in six sizes and a wide variety of types and ranges, they resolve many problems for the equipment designer and are always a solid choice for function and appearance.

AC meters in this series are available in both moving coil (*rectifier type*) and iron vane versions. The latter has the virtue of being relatively insensitive to input distortion, while the rectifier type is less affected by frequency variations.

Options: Many desirable factory-installed options are available at modest additional cost; see pages 38-43.

W series

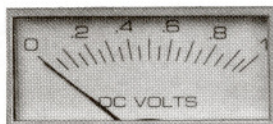
PANEL METERS ~ Windo-mount™



Windo-mount is sophisticated design that has found universal acceptance since Modutec introduced it several years ago. The W series meters are easily installed per applications bulletin AB6-1; when so installed the meter cover is flush with the panel surface, with the dial easily read.

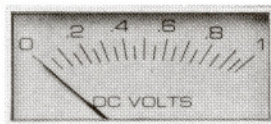
W Series meters are available in the same ranges and at the same prices as the S series meters. They offer excellent functional appearance, plus the looks-enhancing edge options shown below.

Options: Many desirable options are available at modest additional cost, as described on pages 39-43.



EDGE OPTIONS W1

1. Clear. Concealed outside edge of dial cover is polished plastic. This is the standard meter, and will be supplied unless specified otherwise.



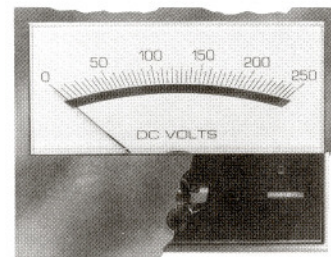
W2

2. White. Concealed outside edge of dial cover is painted white. Added cost HAG. To order, change catalog number prefix to "___W2".



W3

3. Black. Concealed outside edge of dial cover is painted black. Added cost HAG. To order, change catalog number prefix to "___W3".



Cutaway of Windo-Mount Meter installed in 1/8" panel

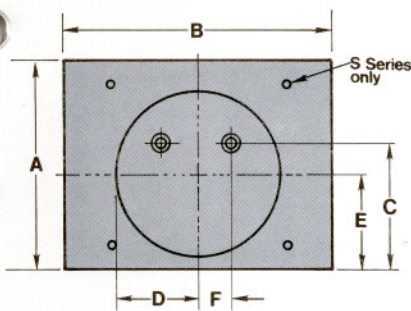
S & W Series-Types Available (UL recognition optional)

DC Microammeters: standard, logarithmic, suppressed zero
 Milliammeters: standard, suppressed zero
 Ammeters
 Millivoltmeters
 Voltmeters: standard, expanded scale, percent deviation

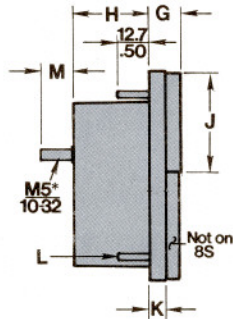
AC Milliammeters: taut band, iron vane
 Ammeters: taut band, iron vane
 Voltmeters: standard, expanded scale - taut band, iron vane
 Null Meters
 VU Meters
 Pyrometers
 Frequency Meters
 Elapsed Time Meters

1½", 2½", 3½", 4½", 5½", 8" sizes

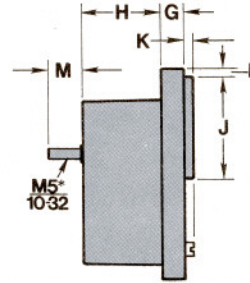
S & W series



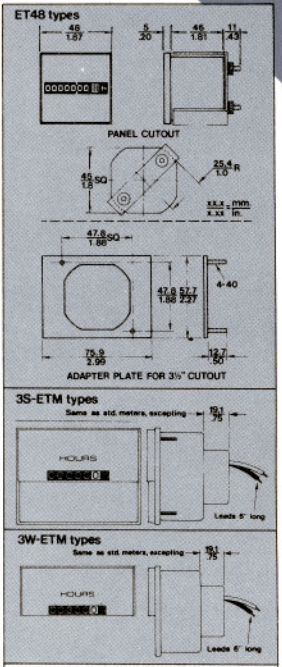
Above: S and W Series rear view (combined)



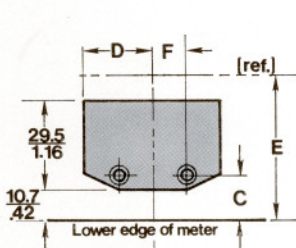
Side view, S Series



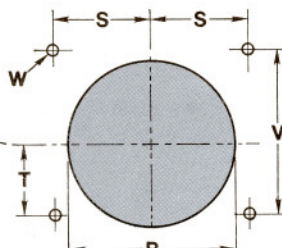
Side view, W Series



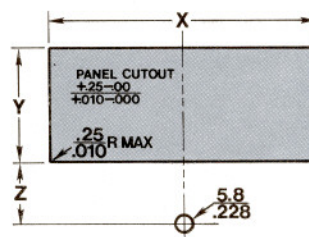
Elapsed Time Meters



8S and 8W barrel detail



S Series panel cutout



W Series panel cutout

DIMENSIONAL DATA

	A	B	C	D	E	F	G	H	J	K	L	M	R	S	T	V	W
1S	mm. 44.5 in. 1.75	56.9 2.24	25.1 .99	19.3 .76	21.1 .83	12.2 .48	8.6 .34	33.0 1.30	22.1 .87	N/A	M3* 4-40	6.4 .25	39.4 1.55	16.8 .66	16.8 .66	33.3 1.31	3.2 .125
2S	mm. 57.7 in. 2.27	75.9 2.99	33.8 1.33	27.2 1.07	28.7 1.13	14.2 .56	10.2 .40	33.0 1.30	31.5 1.24	N/A	M3* 4-40	12.7 .50	56.4 2.22	23.9 .94	23.9 .94	47.8 1.88	3.2 .125
3S	mm. 72.9 in. 2.87	94.0 3.70	36.6 1.44	33.8 1.33	36.6 1.44	14.2 .56	10.4 .41	33.0 1.30	39.4 1.55	N/A	M3* 4-40	12.7 .50	71.6 2.82	28.4 1.12	28.4 1.12	57.2 2.25	3.2 .125
4S	mm. 100.6 in. 3.96	129.5 5.10	44.2 1.74	33.8 1.33	44.2 1.74	14.2 .56	12.9 .51	33.0 1.30	55.9 2.20	N/A	M3.5* 6-32	12.7 .50	71.6 2.82	50.8 2.00	39.1 1.54	90.4 3.56	3.8 .150
5S	mm. 113.8 in. 4.48	148.6 5.85	41.9 1.65	33.8 1.33	41.9 1.65	14.2 .56	14.0 .55	33.0 1.30	63.5 2.50	N/A	M3.5* 6-32	12.7 .50	71.6 2.82	66.8 2.63	21.6 .85	76.2 3.00	3.8 .150
5S Opt.1	mm. 113.8 in. 4.48	148.6 5.85	41.9 1.65	33.8 1.33	41.9 1.65	14.2 .56	14.0 .55	33.0 1.30	63.5 2.50	N/A	M3.5* 6-32	12.7 .50	71.6 2.82	57.2 2.25	27.8 1.093	88.9 3.50	3.8 .150
8S	mm. 165.1 in. 6.50	203.2 8.00	17.3 .68	25.4 1.00	50.8 2.00	12.2 .48	14.0 .55	30.5 1.20	114.3 4.50	10.4 .41	M3.5* 6-32	12.7 .50	88.9 3.50	76.2 3.00	25.4 1.00	114.3 4.50	3.8 .150

	A	B	C	D	E	F	G	H	J	K	L	M	X	Y	Z
1W	mm. 45.0 in. 1.77	57.4 2.26	24.9 .98	19.3 .76	20.8 .82	12.2 .48	7.0 .275	33.0 1.30	23.5 .925	3.7 .145	1.5 .06	6.4 .25	54.6 2.150	23.7 .935	13.6 .535
2W	mm. 58.2 in. 2.29	76.5 3.01	34.3 1.35	26.9 1.06	29.2 1.15	14.2 .56	7.5 .295	33.0 1.30	32.0 1.260	3.7 .145	1.5 .06	12.7 .50	73.7 2.900	32.3 1.270	16.1 .633
3W	mm. 73.7 in. 2.90	94.7 3.73	36.8 1.45	33.8 1.33	36.8 1.45	14.2 .56	8.1 .32	33.0 1.30	40.3 1.585	3.7 .145	1.8 .07	12.7 .50	91.7 3.610	40.5 1.595	20.4 .804
4W	mm. 103.1 in. 4.06	131.6 5.18	45.5 1.79	33.8 1.33	45.5 1.79	14.2 .56	9.4 .37	33.0 1.30	59.3 2.335	3.7 .145	2.3 .09	12.7 .50	127.5 5.020	59.6 2.345	21.7 .856
5W	mm. 116.8 in. 4.60	151.6 5.97	41.9 1.65	33.8 1.33	41.9 1.65	14.2 .56	9.4 .37	33.0 1.30	65.6 2.583	3.7 .145	2.5 .10	12.7 .50	146.8 5.780	65.8 2.590	32.5 1.278
8W	mm. 165.1 in. 6.50	203.2 8.00	17.3 .68	25.4 1.00	50.8 2.00	12.2 .48	14.0 .55	30.5 1.20	114.3 4.50	10.4 .41	12.2 .48	14.0 .55	198.4 7.810	114.6 4.510	28.9 1.138

SPECIFICATIONS

Modutec meters meet or exceed the performance requirements of American National Standards (ANSI) C39.1-1981

***Accuracy:** ±2% DC;
±2% AC — iron vane;
±3% AC — rectifier type
(60 Hz sine wave).

***Tracking:** ±1½% DC;
±2% AC; vertical
mounting.

***Repeatability:**
±0.5% DC and rectifier;
±2% iron vane

Response time: 1.5 sec-
onds maximum for all
ranges, except 0-50 µA
and below, where the
response time is 3.0
seconds maximum.

***Symmetry:** ±1.5%.

Resistance:
±10% DC and rectifier;
±30% iron vane

Scale arc: 100°
(iron vane 90°).

Shielding: Self-shielded;
no special calibration
needed for steel or non-
ferrous panel mounting,
including iron vane
meters, a Modutec
exclusive.

Scale lengths:

Meter Size	Scale Length DC & Rectifier	Scale Length Iron Vane
1½"	1.75"	—
2½"	2.41"	2.15"
3½"	3.00"	2.70"
4½"	4.22"	3.80"
5½"	5.12"	—
8"	7.55"	—

*Percent of full scale. On zero center meters, specification applies to full scale, not end scale values, e.g., 50-0-50 µA is 100 µA full scale.

NOTE ON ORDERING: The ranges, catalog numbers, and price codes on the next six pages apply to both the S and W Series meters. To designate choice when ordering, replace the in the applicable catalog number with "S" or "W".