

For over 60 years, Jewell Instruments and our predecessor companies have provided high quality panel meter solutions for a wide range of aerospace, industrial and commercial applications. JEWELL and MODUTEC are some of the most trusted brands in the industry. They are known for:

- reliable, high quality, products
- superb applications knowledge
- custom designs for unique requirements
- “extended staff” relationships with customers
- creative engineering expertise

Jewell Instruments

The only panel meter manufacturer that offers a full spectrum of panel meters. Analog, digital. Any size, and shape. Surface mount, window mount, bezel mount. We have decades of broad-based experience resulting in our superior breadth of product — and our ability to meet your custom needs. Jewell Instruments can provide a proven, quick and cost-effective solution to your panel meter needs.

Analog panel meters can be either electrical or electronic. Application areas include:

Electrical

- **Field Strength Meters**
- **Power Generation**
- **Power Distribution Panel**
- **Control Panels**
- **Switchgear Panels**
- **Power Supplies**
- **Power Conditioners**
- **Voltage Regulators**
- **UPS Systems**
- **Automatic Transfer Switches**
- **Generator Paralleling Switchgear**

Electronic

- **Liquid Level**
- **Flow**
- **Pressure Monitors**
- **Volume Units**
- **Laboratory Equipment**
- **Test Equipment**
- **Broadcast Equipment**
- **Stereo Equipment**
- **Medical**
- **Temperature**
- **Battery Level**
- **Speed**
- **Tension Control**
- **Kilns**
- **Marine**
- **Chart Recorders**
- **Field Strength**

Digital panel meter applications include:

Digital

- **Telecommunications**
- **Welders**
- **Agricultural**
- **Water Purification**
- **Desalinization**

Key

Meter Codes	Shape
1 = Surface Mount	V=Vertical
2 = Window Mount	H=Horizontal
3 = Bezel Mount	Med=Medallion
4 = Edgewise	Sq=Square
5 = Switchboard	R=Round
	Rec=Rectangle

Model	Page	Mount Code	Shape	Sizes								Accuracy				AC Rectified	AC Iron Vane	DC	Self-Shielding
				1 1/2"	2"	2 1/2"	3 1/2"	4 1/2"	5"	5 1/2"	6"	8"	2%	3%	4%				
Surface Mount																			
S Series	4	1	Rec	•		•	•	•		•		•	•			•	•	•	•
2810 Series	4	1	Sq				•	•				•	•			•	•	•	•
PB Series	4	1	Sq	•		•	•	•				•	•			•	•	•	•
HS Series	5	1	R	•		•	•					•	•			•		•	•
45 Series	5	1	Sq						•			•	•			•		•	•
50 Series	5	1	R, Rec			•	•		•			•	•			•		•	•
MS Series	6	1	Rec	•		•	•					•	•			•		•	•
200 & 300 Series	6	1	R			•	•					•	•			•	•	•	•
72 Series	6	1	Sq			•	•								•	•		•	•
73 Series	6	1	R			•									•	•		•	•
25 Series	6	1	R			•						•						•	•
Model 133 & 135	7	1	Sq	•									•	•		•		•	
Model 4632 & 4652	7	1	R					•				•	•			•		•	•
Model 3432 & 3452	7	1	R				•					•				•		•	•
Model 443 & 445	7	1	R					•				•				•		•	•
Model 35	7	1	R				•					•	•			•		•	•
55 & 56 Series	8	1	Sq			•									•			•	
MM Series	8	1	Med	•		•	•					•	•			•		•	
MAS Series	8	1	Rec	•		•	•								•	•		•	
OMS & MSQ Series	8	1	Rec	•		•									•	•		•	
42 & 44 Series	8	1	Sq			•									•	•		•	
Window Mount																			
World Meter	9	2	Rec	•		•	•	•				•	•			•		•	•
W Series	9	2	Rec	•		•	•	•		•		•	•			•	•	•	•
Bezel Mount																			
SWM Series	9	1,2,3	Rec			•	•	•				•	•			•		•	•
55 Series	9	1,2,3	Sq				•								•	•		•	
2000 Series	10	1,3	Sq			•		•		•		•						•	•
70 Series	10	1,3	Sq	•		•	•		•		•	•	•			•		•	
BA Series	10	3	Rec	•		•	•	•		•		•	•			•	•	•	•
58 Series	10	3	Rec			•									•			•	
Edgewise																			
E Series	11	4	H,V		•							•				•		•	•
MD & ME	11	4	H,V	•	•										•	•		•	
13 & 13F	11	4	H,V		•										•	•		•	
Model 12	11	4	H,V	•											20%			•	
802 Series	11	4	H												•			•	
Model 111	12	4	H,V	•								•	•					•	•
Model 121	12	4	H,V		•							•	•			•		•	•
Model 131	12	4	H,V			•						•	•			•		•	•
Model 231	12	4	H,V			•						•	•			•		•	•
Switchboard																			
2830 Series	13	5	Sq					•				•				•		•	•
Model 4931	13	5	Sq					•				•				•			•
Model 496	13	5	Sq					•				•					•		•
Model 4951	13	5	Sq					•				•						•	•
Model 4981	13	5	Sq					•				•				•		•	•
Model 497	13	5	Sq					•				•				•		•	•
Model 4951-568	13	5	Sq					•				>.025%				•		•	•
Model 4951-727	12	5	Sq					•				>.025%				•		•	•
Model 4991	12	5	Sq					•					•			•		•	•



Surface Mount



Window Mount



Bezel Mount



Edgewise



Switchboard

Meter Movements

Taut-band

Taut-band suspension core-magnet construction and wrap-around powdered-iron pole piece provide inherent ruggedness and exceptional self-shielding. Recommended for rugged environments when high shock loads are the norm.

Pivot & Jewel

Pivot and jewel suspension is a standout for high torque, low internal friction, great accuracy and excellent tracking and repeatability. Recommended for rugged environments when vibration is common.

Moving Magnet

A moving magnet suspension with a permanent coil and a moving magnet is a much more cost-effective solution than a traditional d'Arsonval movement. With an accuracy level of 5%, it has a price/performance advantage when indication, and not pinpoint accuracy, is the meter's functional requirement.

AC Meters

AC meters are available in either rectifier type or iron-vane version.

- Rectifier type is the standard taut-band movement for alternating current (AC).
- Iron-vane movements are compact pivot and jewel suspensions. They have the advantage of insensitivity to input distortion, making them the appropriate choice for applications encountering environmental vibration.

Many options are available for our meters; they are almost infinitely customizable. Please call one of our experienced Applications Specialists or visit our Web site: www.jewellinstruments.com to view a detailed Specifications Sheet.

All of Jewell Instruments analog meters meet the ANSI C39.1 standard.

Style

After form factor and accuracy, style can be the most important decision criteria in selecting a panel meter. Jewell Instruments offers a complete array of customizable features, from cases and covers, to colors and dials, to special markings and hot-stamped covers. Call us and talk to one of our knowledgeable Applications Specialists to discuss your unique style needs.

High Style

New panel meter applications often require a cutting edge look. Jewell Instruments offers a variety of panel meter configurations with clean-cut styling to meet your latest design needs.



S Series — MODUTEC

These clean-cut meters with straightforward design and pleasing aspect ratio are leaders of our panel meter line. Their dimensions and styling will add distinction to any instrument or control panel.

Surface, rectangle, 1 1/2", 2 1/2", 3 1/2", 4 1/2", 5 1/2", 8", DC 2%, AC rectified 3%, AC iron vane 2%, self-shielding



2810 Series — MODUTEC

The 2810 Series offers large, easy-to-read scales that are clearly illuminated from ambient light. Featuring a unique case design with enclosed meter movement and scales located behind internal housing, the 2810 offers greater dust resistance than conventional case designs.

Surface, square, 3 1/2", 4 1/2", DC 2%, AC rectified 3%, AC iron vane 2%, self-shielding

Industrial Styling

Whether it's a new panel meter application or an old standby, the traditional look of our industrialized meters might be just the right design element for your application.



PB Series — MODUTEC

The PB Series meets the design needs of a hard-hitting, big-dial-area "industrial" look demanded by many of our customers. The widest range configurations available in the industry.

Surface, square, 1 1/2", 2 1/2", 3 1/2", 4 1/2", DC 2%, AC rectified 3%, AC iron vane 2%, self-shielding