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JEMStar II RETROFIT

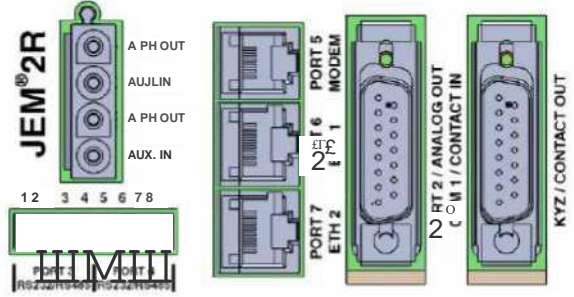
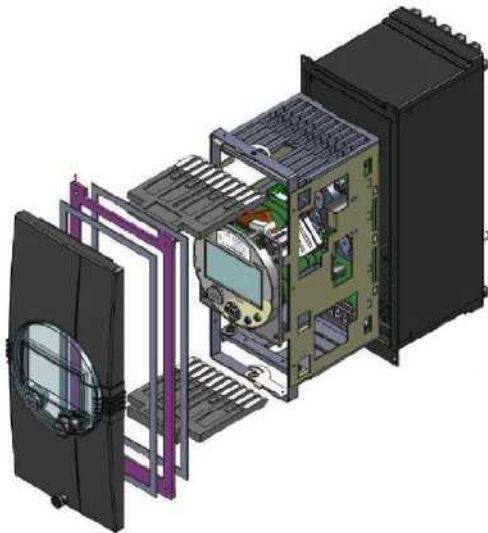
Convert Old Legacy Meters to a JEMStar II High Accuracy Revenue Meter

AMETEK Power Instruments has designed our JEMStar II High Accuracy Revenue Meter to fit into an existing legacy meter enclosure (short or tall) and connect to the existing wiring for a plug and play replacement option. This takes the hassle out of finding a way to fit your new meter into an existing cutout and the extra time to update your drawings and rewire the meter.

Not only do you save money using a Power Instruments meter retrofit, the JEMStar II includes many advanced features that were not available on previous models. Upgrading to a retrofit JEMStar II will improve your accuracy to a guaranteed 0.05% for 10 years. In addition to better accuracy, you will have more communication and I/O options, power quality features, NERC CIP security and more data measurements and storage. In all retrofits, we duplicate the exact features that were available in the previous models, like the circuit connections (voltage/current), I/O and Communications. This allows you to keep any existing wiring and even engineering drawings, since all the wiring will remain the same. Our custom design mounts flush to the existing meter enclosure so it doesn't protrude out from the front. We can take your integration a step further and add new features that were not available in the previous model, like Internal Modem, Ethernet and IRIG-B. We add these new features into either existing terminals and connectors or by adding a cable. Utilizing our retrofit plug and play gives you modern features while saving you over \$1,000 per site in commissioning costs. Take a look at our retrofit in comparison to a meter replacement¹.

Installation Process	Power Instruments Meter Retrofit		New Meter Installation	
	Hours	Details	Hours	Details
1. Engineering	0	No wiring changes required	8	Update drawings
2. Disconnect Power	0	Can replace with power 'On'	1	Lockout/ Tagout
3. Remove Existing Meter Wiring ¹	0	Existing wiring remains in place on existing enclosure	1	Label and tag wires
4. Remove Meter	0	Slide meter out of enclosure	1	Remove meter and enclosure
5. Modify Panel Cutout for New Meter	0	Not required since we use the existing meter enclosure	8	Install filler plate or modify cutout
6. Install New Meter	0	Slide new meter into existing enclosure	1	Install new meter enclosure
7. Reconnect Meter Wiring	0	We use the existing meter wires	1	Rewire meter
8. Power Up Meter and Test	1	Power up meter	2	Test wiring and power up meter
Total Hours	1		23	
Labor Rate (\$/hour)	\$50.00		\$50.00	
Total Cost	\$50.00		\$1,150.00	
\$1,100.00 in Savings from Utilizing a JEMStar II Retrofit				
¹ The hours and prices reflected in this chart are based on average estimates and do not reflect exact hours or costs, please contact us to discuss your retrofit and potential savings opportunity.				

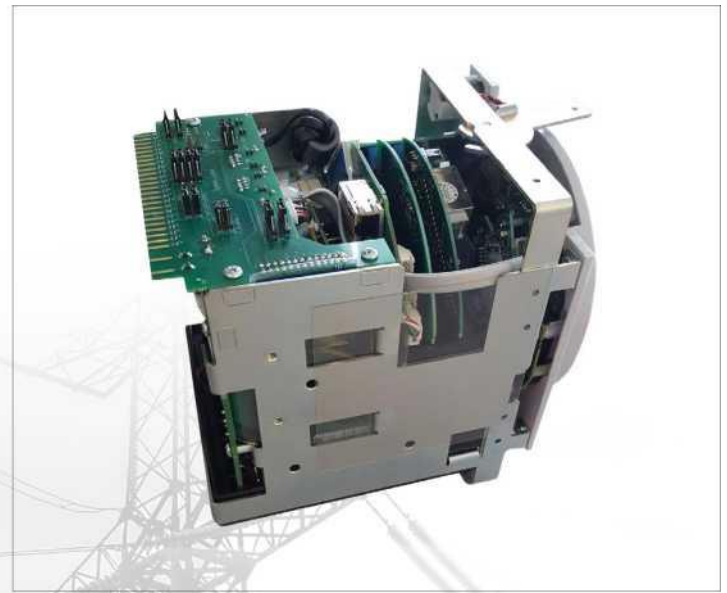
AVAILABLE JEMSTAR II RETROFITS	
1	SCI JEM2, JEM10, JEMStar
2	GE DS63, DSW63, DS64, DSW64
3	Quantum Q121, Q220
4	TransData MarkV
5	L&G Quad4
6	Westinghouse D2B, D4B



Example of a JEMStar II retrofitting a JEM2 using an existing 'tall' meter enclosure.



Example of a JEMStar II retrofitting a GE DS63 using an existing 'short' enclosure



Example of a JEMStar II retrofitting a JEMStar I meter.

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