



**MEMORANDUM**

**DATE:** March 14<sup>th</sup>, 2021  
**TO:** WW Sales Personnel, WW Customer Service Group, Applications Engineering  
**FROM:** Ron Zukerman, Sales & Marketing Director  
**SUBJECT:** **MR1 Series Bridge Completion Modules End of Life Notification**

Micro-Measurements Division is pleased to announce the expected End of Life of the MR1 Bridge Completion Modules series, and transition to our next-generation, MRF Series built with our Vishay Foil Resistors technology.

MRF-Series Bridge Completion Modules employ Vishay foil resistors that provide an ultra-low temperature coefficient, low thermal EMF, fast response to current change, and/or low power coefficient of resistance. This results in a very low resistance temperature coefficient equivalent to  $\pm 0.15 \mu\epsilon/^\circ\text{F}$  ( $\pm 0.27 \mu\epsilon/^\circ\text{C}$ ) for the half-bridge circuits, and  $\pm 0.35 \mu\epsilon/^\circ\text{F}$  ( $\pm 0.63 \mu\epsilon/^\circ\text{C}$ ) for the dummy gages, over a temperature range from  $0^\circ$  to  $+200^\circ\text{F}$  ( $-18^\circ$  to  $+95^\circ\text{C}$ ). Maximum operating temperature range is  $-50^\circ$  to  $+250^\circ\text{F}$  ( $-45^\circ$  to  $+120^\circ\text{C}$ ).

Since many general-purpose instruments do not provide internal bridge completion capability, the MRF-Series of BCMS effectively implements a full Wheatstone bridge for accurate and stable measurements when testing specimens structured as a 1/4 -bridge (single gage) or 1/2 -bridge (dual gages). They are especially useful when completing the Wheatstone bridge near the strain gage installation is possible.

The MRF-Series modules are offered in several configurations that will allow for bridge completion for 120, 350, 1000 and now 5000Ω quarter-bridges along with half bridge completion as well.

Below find list of End of Life MR1 items, and their new MRF replacements modules:

	End of Life		NEW		EOL Date
	MR1 Description	MR1 item number	MRF Description	MRF item number	
1	MR1-350-127	MMF011361	MRF-350-127	MMF336858	April 1 <sup>st</sup> 2021
2	MR1-350-130	MMF011340	MRF-350-130	MMF336864	April 1 <sup>st</sup> 2021
3	MR1-10C-129	MMF011362	MRF-10C-129	MMF336862	April 1 <sup>st</sup> 2021
4	MR1-120-133	MMF303137	MRF-120-133	MMF336866	April 1 <sup>st</sup> 2021
5	MR2-350-128	MMF011360	MRF-350-128	MMF336860	April 1 <sup>st</sup> 2021

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