

MEMORANDUM

DATE: June 16, 2019

WW Sales Personnel, WW Customer Service Group, Applications Engineering,

New Product Quote Groups

FROM: Ron zukerman, Sr. Manager Sales & Marketing

SUBJECT: C2A Gage Series End of Life

Micro-Measurements Division is pleased to announce the End of Life of the C2A Gage Series, and transition to our next-generation, C4A Gage Series built with our Advanced Sensors Strain Gage technology.

In the past few years, Micro-Measurements has been actively engaged in migrating several legacy strain gage configurations / types to a re-designed and upgraded replacement patterns built with the Advanced Sensors Technology.

Advanced Sensors Technology provides higher process capability using state-of-the-art equipment and tooling. This results in higher product reliability, shorter lead times and better gage availability.

Today, we are pleased to announce an additional series of patterns marked for transition to our next-generation, strain gages using our Advanced Sensors Technology.

The below list represents 4 main patterns of the C2A Gage Series which will be migrating to their equivalent patterns in the C4A Gage Series:

| C2A Gage Pattern | C4A Gage Pattern | EOL Date |
|------------------|----------------------|--------------------------------|
| C2A-xx-062LW-xxx | C4A-xx-060SL-xxx-39P | September 1 st 2019 |
| C2A-xx-125LW-xxx | C4A-xx-125SL-xxx-39P | September 1st 2019 |
| C2A-xx-250LW-xxx | C4A-xx-235SL-xxx-39P | September 1 st 2019 |
| C2A-xx-125LR-350 | C4A-xx-125PR-350-39P | December 31st 2019 |

In addition, we do expect that C2A Gage pattern in stacked Rosette configuration will also transition to the Advanced Sensors product line by the end of next year.

We will keep all customers informed of new products with associated roll-out dates well in the future, so that next generation products can be evaluated and tested before any further product obsolescence is announced.

We understand the transition to new part numbers may require customers to perform evaluation of the new gages. The time required to perform these tests will vary, depending upon the specific application and each customer's internal process for part number changes.

Looking ahead, our product roadmap is based on our new technology. During the last few years, Micro-Measurements have invested significantly in additional new manufacturing equipment by upgrading existing processes, in order to expand our next generation product offerings and expand our manufacturing capacity. After 50 years of providing traditional strain gages, we are now ready to begin the process of upgrading our strain gages to next-generation products.

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| Status | Manufacturer Part Number | Description | AS part number | AS description |
|----------|--------------------------|------------------|----------------|----------------------|
| Obsolete | MMF307385 | C2A-06-062LW-350 | MMF403816 | C4A-06-060SL-350-39P |
| Obsolete | MMF307401 | C2A-06-125LR-350 | MMF404199 | C4A-06-125PR-350-39P |
| Obsolete | MMF309393 | C2A-06-125LW-120 | MMF403993 | C4A-06-125SL-120-39P |
| Obsolete | MMF307441 | C2A-06-125LW-350 | MMF404139 | C4A-06-125SL-350-39P |
| Obsolete | MMF307477 | C2A-06-250LW-120 | MMF404428 | C4A-06-235SL-120-39P |
| Obsolete | MMF307481 | C2A-06-250LW-350 | MMF404145 | C4A-06-235SL-350-39P |
| Obsolete | MMF307409 | C2A-13-125LR-350 | MMF404203 | C4A-13-125PR-350-39P |
| Obsolete | MMF307445 | C2A-13-125LW-120 | MMF404141 | C4A-13-125SL-120-39P |
| Obsolete | MMF307449 | C2A-13-125LW-350 | MMF404143 | C4A-13-125SL-350-39P |
| Obsolete | MMF307485 | C2A-13-250LW-120 | MMF404430 | C4A-13-235SL-120-39P |