

MTS G-Series MDT Compatibility Testing

Date: May 20, 2004

Tester: Jacob Paso, Don Denman

Purpose:

To determine whether the MTS G-series transducer is compatible with Delta's motion control products.

Procedure:

Connected the G-series to various Delta motion control products in various configurations. Viewed the resulting feedback counts in the Delta software, viewed the signals on an oscilloscope and verified that the signals were correct.

RMC100

Configuration	Wiring	Result
S/S	Differential	Passed
PWM	Differential	Passed
S/S	Single-ended	Passed - See note below

Note:

Several wiring configurations were attempted to simulate single-ended. Single-ended worked only when wired according to **Diagram A**. **Diagram B** and **Diagram C** did not work, although we expected at least one to work. Since the **B** and **C** signals were very noisy in blocks, we assume **B** and **C** made the G-Series attempt serial communication. We did not find any single-ended wiring diagrams in the preliminary G-series documentation.

Diagram A (Passed):

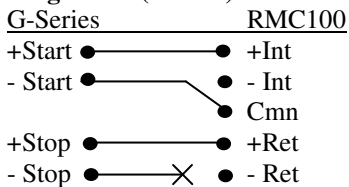


Diagram B (Failed):

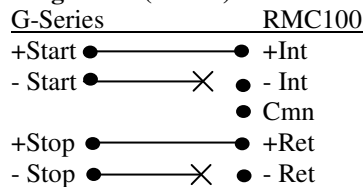
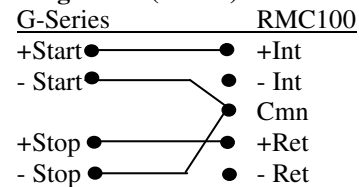


Diagram C (Failed):



RMC70

Configuration	Wiring	Result
S/S	Differential	Passed
PWM	Differential	Passed

Note:

Single-ended is not supported by the RMC70 and was therefore not tested.

TMC

Configuration	Wiring	Result
S/S, 4 Recirculations	Single-ended	Passed - See note below

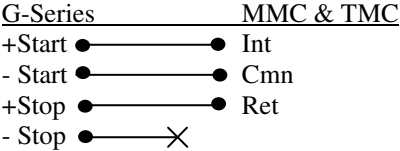
Note:

The TMC supports only single-ended. Single-ended worked when wired according to **Diagram D** below.



COMPUTER SYSTEMS, INC.

Diagram D (Passed):



MMC

Configuration	Wiring	Result
S/S, 4 Recirculations	Single-ended	Passed - See note below

Note:
The MMC supports only single-ended. Single-ended worked when wired according to **Diagram D** above.