



industrial/wireless/performance

APPLICATION BULLETIN

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*MDS 1000-HS &
MDS 2310*

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MDS 2310 REMOTE TRANSCEIVER USED WITH MDS 1000 MASTER STATION

When upgrading older systems using MDS 1000 masters with current MDS 2310 remote data transceivers, the CTS delay of the remotes may need to be increased to compensate for the slightly longer DCD time in the older master stations. Although MDS lab tests show that a CTS delay of 12ms seems to work fine, MDS recommends programming the 2310 CTS delay to 15ms to account for variations in the RC time constant used in the 1000 master stations. This delay is programmed into the 2310 using the PCTS_XX command, as discussed in chapter 4, “Programming and Diagnostics”, in the MDS 2310 Remote Data Transceiver Installation and Operation Manual, and on the reference card for the MDS Hand-Held Terminal.

If the RTU connected to the 2310 does not support hardware (RTS-CTS) handshaking, but instead uses a built-in delay, a similar change to the RTU’s key-up delay may be needed. In this case, the RTU should be configured to wait at least 15ms after raising the key line before sending data to the 2310 transceiver.

Note: Some RTU devices refer to this timing parameter as “pre-transmission delay” or “pre-transmission mark”.

For more information, contact MDS Technical Services at techsupport@microwavedata.com, or by phone at +1-585-241-5510.
