

Operational Description

Master Meter, Inc. hand-held data terminal MINT is used for remote water meter reading and to initialize parameters of water meters. The unit is a stand alone unit based on a NEC-V53 (24 MHz crystal/2) microprocessor. MINT has an LCD display unit, keyboard, rechargeable battery pack, real-time clock and a magnetic coupler for communication with meters, all installed in a rigid plastic case.

In regular mode the MINT communicates with the meter in a baud rate of 300 baud and transmits bursts of up to 100 msec. Its transmission frequency is 77 kHz. In fast mode the baud rate of the burst is 1200 baud, with the other parameters identical. The MINT has an internal passive envelope detector connected to its internal coupling coil used for reception data from meters. Note - there is no local oscillator in reception mode (passive detector)

The MINT has a standard D-9 type RS232 connector for loading software and battery charging.