

XTC-100D

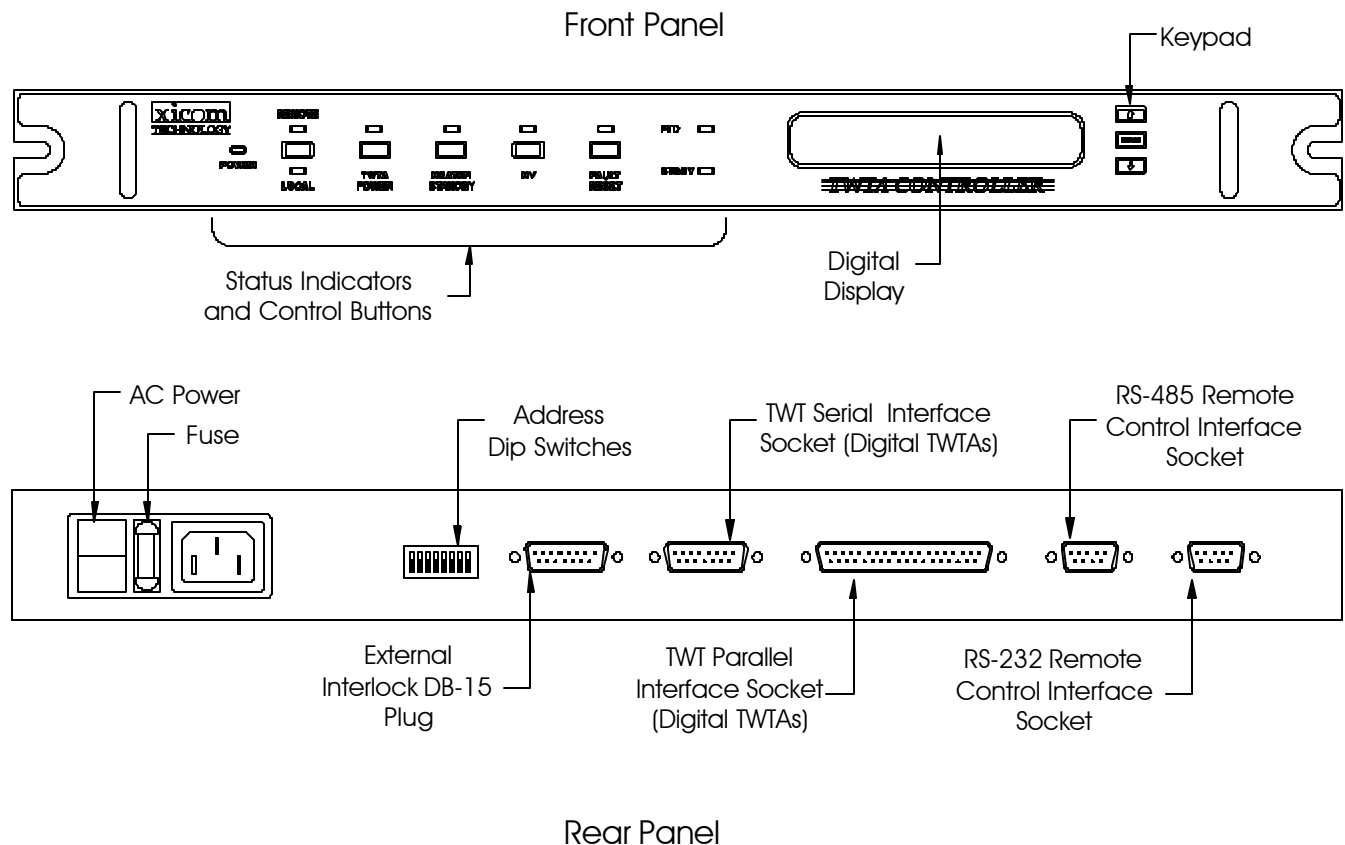
TWTA CONTROLLER

Features

- Full antenna-mount TWTA control (analog or digital M&C system)
- Full antenna-mount TWTA status (analog or digital M&C system)
- Digital display of TWTA operating parameters
- Parallel (analog) or serial (digital) TWTA M&C interface
- Two serial interface ports, RS-232 and RS-485
- Remote control via the serial interface (RS-232 and RS-485 hardware interface)
- One rack unit high (1 ¾ inches)

The microprocessor controlled XTC-100D controller provides full remote control and monitoring of Xicom Technology antenna mount TWTAs. The front panel displays the RF power, TWT status, fault logs and operational hours. The controller is compact and requires only one rack unit (1 ¾ inches) of space from a standard 19 inch rack.

OUTLINE DRAWING



LOCAL FUNCTIONS

Control Functions - Front Panel	
<ul style="list-style-type: none"> • TWTA Power On • High Voltage On • Heater Standby † 	<ul style="list-style-type: none"> • Local / Remote • Fault Reset

† Heater standby reduces the traveling wave tube's (TWT) heater voltage when high voltage is off. This improves the life of the TWT when the unit is the back-up unit in a redundant configuration. High voltage on overrides the heater standby command. The reduced heater voltage does not affect turn on time when high voltage is applied.

Status Indicators	
<ul style="list-style-type: none"> • Power On • Summary Fault • Filament Time Delay (FTD) • TWTA Power 	<ul style="list-style-type: none"> • Local / Remote • High Voltage • Standby • Heater Standby

Digital Display

The Controller can send the full set of TWTA control and query commands to the digital M&C TWTAs. The TWTA response to query commands can be shown on the front panel display (user selected data is displayed). If the TWTA is equipped with the gain adjust option, the gain can be controlled via the front panel display and controls.

Menu System

