

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Tektronix CTS 710* at our website: ***Click HERE***

Reference

Tektronix

CTS 710 SONET Test Set &
CTS 750 SDH Test Set
Command List

070-8854-03

This document applies to firmware version 1.40
and above.

070885403
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Copyright © Tektronix, Inc. All rights reserved. Licensed software products are owned by Tektronix or its suppliers and are protected by United States copyright laws and international treaty provisions.

Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013, or subparagraphs (c)(1) and (2) of the Commercial Computer Software – Restricted Rights clause at FAR 52.227-19, as applicable.

Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supercedes that in all previously published material. Specifications and price change privileges reserved.

Tektronix, Inc., P.O. Box **500 Beaverton, OR. 97077**

TEKTRONIX and TEK are registered trademarks of Tektronix, Inc.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Please refer to the *CTS 710 Programmer Manual* or the *CTS 750 Programmer Manual* for complete syntax information

CALibrate
- :EXECute
- :RESults?
- :SELect

DIAGnostic
- :BUFFer
  - :DATA?
  - :INDex
  - :SIZE?
- :EXECute
- :LOOP
- :RESults?
- :SELect

DISPlay
- :BRIGhtness

HCOPy
- :ABORt
- :DEVice
  - :LANGuage
- :IMMediate
- :ITEm
- :TITLe

INITiate

INPUT1:TELecom
- :LEVel
- :OPWR?
- :PVOLtage?
- :RATE
- :STATus?
- :TYPE

INPUT2:TELecom *(Opt. 22, Opt. 36 only)*
- :LEVel
- :STATus?
- :TERMinator

INPUT3:TELecom *(Opt. 22, Opt. 36 only)*
- :LEVel
- :RATE
- :STATus?

INSTrument:COUPling

MMEMory:DELEte
- :JITter
  - :OUTPUT *(CTS 750 Opt. 14 only)*
  - :POINter *(CTS 750 Opt. 14 only)*
  - :TOLerance *(CTS 750 Opt. 14 only)*
  - :TRANSFer *(CTS 750 Opt. 14 only)*
- :RESults
- :SETTings
- :TEST

MMEMory:LOAD
- :JITter
  - :OUTPUT *(CTS 750 Opt. 14 only)*
  - :POINter *(CTS 750 Opt. 14 only)*
  - :TOLerance *(CTS 750 Opt. 14 only)*
  - :TRANSFer *(CTS 750 Opt. 14 only)*
- :RESults
- :SETTings
- :TEST

MMEMory:STORe
- :JITter
  - :OUTPUT *(CTS 750 Opt. 14 only)*
  - :POINter *(CTS 750 Opt. 14 only)*
  - :TOLerance *(CTS 750 Opt. 14 only)*
  - :TRANSFer *(CTS 750 Opt. 14 only)*
- :RESults
- :SETTings
- :TEST

OUTPUT1:TELecom
- :LEVel
- :RATE
- :TYPE

OUTPUT2:TELecom *(Opt. 22, Opt. 36 only)*
- :CODE
- :TERMinator

OUTPUT3:TELecom *(Opt. 22, Opt. 36 only)*
- :RATE

SENSe:DATA:TELecom
- :AUTOscan
- :CHANnel

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SENSe:DATA:TELecom:JITter *(CTS 750 Opt. 14 only)*
:CLOCk
:RATE
:FILTer
:FULLband
:HPASs
:HIGHBand
:TYPE
:FREQuency
:DELTa
:CURrent?
:RATE
:CURrent?
:MODE
:RANGe
:POINter
:THREshold
:SOURce
:THREshold

SENSe:DATA:TELecom:MEASure:ALARm
?
:LAIS?
:LFERf?
:LOFrame?
:LOPointer?
:LOSignal?
:LPWR?
:OOFrame?
:PAIS?
:PFERf?
:VTAIS? *(Opt. 22, Opt. 36 only)*
:VTFERF? *(Opt. 22, Opt. 36 only)*
:VTLOM? *(Opt. 22, Opt. 36 only)*
:VTLOP? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ANALysis:BBError
?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ANALysis:DMINutes
?
:BIT?

SENSe:DATA:TELecom:MEASure:ANALysis:EBLock
?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ANALysis:ECOUnt
?
:BIT?

SENSe:DATA:TELecom:MEASure:ANALysis:EFSEConds
?
:BIT?

SENSe:DATA:TELecom:MEASure:ANALysis:ESEConds
?
:BIT?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ANALysis:PBBError
?
:BIT?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ANALysis:PDMINutes
?
:BIT?

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SENSe:DATA:TELecom:MEASure:ANALysis:PEFSeconds
?
:BIT?

SENSe:DATA:TELecom:MEASure:ANALysis:PESeconds
?
:BIT?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ANALysis:PSESeconds
?
:BIT?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ANALysis:PUASeconds
?
:BIT?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ANALysis:SESeconds
?
:BIT?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ANALysis:UASeconds
?
:BIT?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:BUFFer
:AVAILable

SENSe:DATA:TELecom:MEASure:ERROR?

SENSe:DATA:TELecom:MEASure:ERROR:ECOUnt
?
:BIT?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ERROR:ERATio
?
:BIT?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:ERROR:ESEConds
?
:BIT?
:LCV?
:LFEBe?
:PCV?
:PFEBe?
:SCV?
:VTBIP? *(Opt. 22, Opt. 36 only)*
:VTFEBe? *(Opt. 22, Opt. 36 only)*

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SENSe:DATA:TELecom:MEASure:INFOrmation
?
:DATE?
:DESCription?
:FRAMing?
:INSTrument?
:JITter
:CLOCk *(CTS 750 Opt. 14 only)*
:RATE? *(CTS 750 Opt. 14 only)*
:FILTer *(CTS 750 Opt. 14 only)*
:? *(CTS 750 Opt. 14 only)*
:FULLband:HPASs? *(CTS 750 Opt. 14 only)*
:MODE? *(CTS 750 Opt. 14 only)*
:RANGe? *(CTS 750 Opt. 14 only)*
:SOURce? *(CTS 750 Opt. 14 only)*
:LENGth?
:MAPPing?
:OPTIons?
:OWNer?
:RATE?
:RESOlution?
:SOURce?
:STRUcture?
:TIME?
:USER?

SENSe:DATA:TELecom:MEASure:JITter:FREQuency
(CTS 750 Opt. 14 only)
:CURrent
?
:DELTa?
:DRIFt
:CURrent?
:MAXimum?
:MAXimum
?
:DELTa?
:MINimum
?
:DELTa?

SENSe:DATA:TELecom:MEASure:JITter:HSEConds?
(CTS 750 Opt. 14 only)

SENSe:DATA:TELecom:MEASure:JITter:PEAK
(CTS 750 Opt. 14 only)
:NEGATIVE
:CURrent?
:MAXimum?
:POSITIVE
:CURrent?
:MAXimum?

SENSe:DATA:TELecom:MEASure:JITter:POINter
(CTS 750 Opt. 14 only)
:HSEConds?

SENSe:DATA:TELecom:MEASure:JITter:PTPeak
(CTS 750 Opt. 14 only)
:CURrent?
:MAXimum?

SENSe:DATA:TELecom:MEASure:JITter:RMS
(CTS 750 Opt. 14 only)
:CURrent?
:MAXimum?

SENSe:DATA:TELecom:MEASure:JITter:STATus?
(CTS 750 Opt. 14 only)

SENSe:DATA:TELecom:MEASure:JITter:UNLSeconds?
(CTS 750 Opt. 14 only)

SENSe:DATA:TELecom:MEASure:POINter
?
:ICOUunt?
:IPSec?
:NDFSeconds?
:NPTR?
:PPTR?
:VTICOunt? *(Opt. 22, Opt. 36 only)*
:VTIPSec? *(Opt. 22, Opt. 36 only)*
:VTNDFSeconds? *(Opt. 22, Opt. 36 only)*
:VTNPTR? *(Opt. 22, Opt. 36 only)*
:VTPPTR? *(Opt. 22, Opt. 36 only)*

SENSe:DATA:TELecom:MEASure:STESts
:DESCription
:DONE
:ENABle
:RESults?
:THREshold

SENSe:DATA:TELecom:MEASure:TRIButary:ALARm
(Opt. 22, Opt. 36 only)
?
:AIS?
:LOFrame?
:LOPS?
:LOSignal?
:RAI?

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SENSe:DATA:TELecom:MEASure:TRIButary:ANALysis:G821
(Opt. 22, Opt. 36 only)
- ?
- :DMINutes?
- :ECOUnt?
- :EFSeconds?
- :ESEConds?
- :PDMinutes?
- :PEFSeconds?
- :PESeconds?
- :PSESeconds?
- :PUASeconds?
- :SESeconds?
- :UASeconds?

SENSe:DATA:TELecom:MEASure:TRIButary:ANALysis:M2100
(Opt. 22, Opt. 36 only)
- ?
- :IN
  - ?
  - :EFSeconds?
  - :ESEConds?
  - :PEFSeconds?
  - :PESeconds?
  - :PSESeconds?
  - :PUASeconds?
  - :SESeconds?
  - :UASeconds?
- :OUT
  - ?
  - :EFSeconds?
  - :ESEConds?
  - :PEFSeconds?
  - :PESeconds?
  - :PSESeconds?
  - :PUASeconds?
  - :SESeconds?
  - :UASeconds?

SENSe:DATA:TELecom:MEASure:TRIButary:ERRor?
(Opt. 22, Opt. 36 only)

SENSe:DATA:TELecom:MEASure:TRIButary:ERRor:ECOUnt
(Opt. 22, Opt. 36 only)
- ?
- :BIT?
- :CRC?
- :FRAME?

SENSe:DATA:TELecom:MEASure:TRIButary:ERRor:ERATio
(Opt. 22, Opt. 36 only)
- ?
- :BIT?
- :CRC?
- :FRAME?

SENSe:DATA:TELecom:MEASure:TRIButary:ERRor:ESEConds
(Opt. 22, Opt. 36 only)
- ?
- :BIT?
- :CRC?
- :FRAME?

SENSe:DATA:TELecom:MEASure:WANDer *(CTS 750 Opt. 14 only)*
- :PTPeak
  - :NS?
  - :UI?
- :SLIPS
  - :BIT?
  - :FRAME?
- :TIE
  - :NS?
  - :UI?

SENSe:DATA:TELecom:OVERhead
- :DATA?
- :DROP
- :POINter?

SENSe:DATA:TELecom:PAYLoad
- :MAPPing
- :PATTern:
  - ?
  - :UBYTe

SENSe:DATA:TELecom:POVerhead
- :DATA?
- :DROP
- :TRACe?

SENSe:DATA:TELecom:SOURce

SENSe:DATA:TELecom:STATus
- ?
- :PRESet

SENSe:DATA:TELecom:STRUcture

SENSe:DATA:TELecom:TEST:DURation

SENSe:DATA:TELecom:TEST:HISTory:RESOlution

SENSe:DATA:TELecom:TEST:JITter:OUTPUT
(CTS 750 Opt. 14 only)
- :DURation
- :HIGHBand
  - :DATA?
- :INFOrmation
  - :<info>?
- :WIDEband
  - :DATA?

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SENSe:DATA:TELecom:TEST:JITter:POINter
(CTS 750 Opt. 14 only)
:HIGHBand
:DATA?
:WIDEband
:DATA?
:INFOrmation
:<info>?
:SEQuence
:TYPE

SENSe:DATA:TELecom:TEST:JITter:STATus?
(CTS 750 Opt. 14 only)

SENSe:DATA:TELecom:TEST:JITter:TOLerance
(CTS 750 Opt. 14 only)
:ALLData?
:DATA
?
:LENGth?
:FREQuency
:END
:STARt
:INFOrmation
:<info>?
:MASK
:MEASure?
:METHod?
:SAMPles?
:THREshold
:DATA?
:STANdard?

SENSe:DATA:TELecom:TEST:JITter:TRANSFer
(CTS 750 Opt. 14 only)
:ALLData
:CALibrate
:STATus?
:DATA
?
:LENGth?
:FREQuency
:END
:STARt
:INFOrmation
:<info>?
:MASK
:SAMPles
:STATE

SENSe:DATA:TELecom:TEST:JITter:TYPE *(CTS 750 Opt. 14 only)*

SENSe:DATA:TELecom:TEST:MODE

SENSe:DATA:TELecom:TEST:STARt

SENSe:DATA:TELecom:TEST:STATus?

SENSe:DATA:TELecom:TEST:STIMe?

SENSe:DATA:TELecom:TEST:STOP

SENSe:DATA:TELecom:TRIButary *(Opt. 22, Opt. 36 only)*
:CHANnel
:DROP
:FRAMing
:MAPPing
:PATTern
?
:UWORd
?
:LENGth
:POINter?
:POVerhead
:DATA?
:TRACe?
:STATus?

SOURce:CLOCk
:OFFSet
:LVALue
:MODE
:PVALue
:SOURce
:STATus?

SOURce:DATA:TELecom:ALARm

SOURce:DATA:TELecom:CHANnel

SOURce:DATA:TELecom:ERRor
:ENABle
:IMMediate
:RATE
:TYPE

SOURce:DATA:TELecom:FAILure:TYPE

SOURce:DATA:TELecom:JITter *(CTS 750 Opt. 14 only)*
:AMPLitude
:CLOCk
:OFFSet
:RATE
:FREQuency
:MODE
:SOURce

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SOURce:DATA:TELecom:OVERhead
:ALLData
:APS
:DATA
:INSert
:PRESet

SOURce:DATA:TELecom:PAYLoad
:MAPPing
:PATTern
?
:UBYTe

SOURce:DATA:TELecom:POINter
:ACTion
:DIRection
:MODE
:NBURst
:NDFLag
:RATE
:SBITs

SOURce:DATA:TELecom:POINter:SEQuence
:ANOMaly
:BTIMe?
:NTIMe?
:CONTrol
:CPERiod
?
:LENGth?
:DIRection
:IPERiod
?
:LENGth?
:RATE
:STATus?
:TYPE

SOURce:DATA:TELecom:POINter:VALue

SOURce:DATA:TELecom:POVerhead
:DATA
:INSert
:PRESet
:TRACe

SOURce:DATA:TELecom:SOURce

SOURce:DATA:TELecom:STRUcture

SOURce:DATA:TELecom:TRIButary *(Opt. 22, Opt. 36 only)*
:ADD
:ALARm
:BACKground
:PATTern
:CHANnel
:ERRor
:FAILure
:FRAMing
:MAPPing
:PATTern:
?
:UWORd
?
:LENGth

SOURce:DATA:TELecom:TRIButary:POINter:
(Opt. 22, Opt. 36 only)
:DIRection
:MODE
:NBURst
:NDFLag
:RATE

SOURce:DATA:TELecom:TRIButary:POINter:SEQuence
(Opt. 22, Opt. 36 only)
:ANOMaly
:BTIMe?
:NTIMe?
:CPERiod
?
:LENGth?
:DIRection
:IPERiod
?
:LENGth?
:RATE
:TYPE

SOURce:DATA:TELecom:TRIButary:POINter:VALue
(Opt. 22, Opt. 36 only)

SOURce:DATA:TELecom:TRIButary:POVerhead
(Opt. 22, Opt. 36 only)
:DATA
:TRACe?

SYSTem:ABStouch

SYSTem:BEEPer
:CONTrol
:IMMediate

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SYSTem:COMMunicate:SERial
:BAUD
:CONTrol
:DCD
:RTS
:PACE
:PARity
:PRESet
:SBITs
:TRANsmit
:DELay
:TERMinator

SYSTem
:DATE
:ERRor?
:HEADers
:KLOCk
:MODE?
:OWNer
:SDEScription
:SERIal
:SET?
:TIME
:USER
:VERBose

TRIGger
:IMMediate
:STATus?

***CLS**

***ESE**

***ESE?**

***ESR?**

***IDN?**

***LRN?**

***OPC**

***OPC?**

***OPT?**

***RCL**

***RST**

***SAV**

***SRE**

***SRE?**

***STB?**

***TST?**

***WAI**

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP