

## ATV-25 Construction Test System

### Automated Test and Verification Systems

#### Features

##### **Bulk Pair and Single Pair Testing**

- ★ 25 Pair Module or Single Pair Cord
- ★ Vacant and Working Pairs
- ★ User Configurable Automated Tests and Fault Limits

##### **Pair Tagging**

- ★ 25 Pair Module
- ★ AC and DC Voltage Matching or 577 Hz ID Tone Search

##### **Electronic Data Reporting**

- ★ Internal Test Data Storage
- ★ USB 2.0, High Speed PC Uploads
- ★ ATV Tools PC Software Included

##### **Vacant Pair Tests**

- ★ Innovative Multi-mode Meter Indicates Open Length, DC Volts, and Resistance
- ★ Load Coil Detection
- ★ Reference Pair Comparison for Capacitive Error Detection
- ★ Metallic Noise
- ★ Balance, Capacitive and Longitudinal

##### **Working Pair Tests**

- ★ DC Voltage
- ★ AC Voltage
- ★ Resistance
- ★ Loop Current
- ★ Assigned Number Retrieval
- ★ xDSL Identification with Special Circuit Lockout
- ★ Spectral Energy Plot
- ★ Power Influence
- ★ Insertion Loss

##### **Support Features**

- ★ ID Tone Generator with Short/Ground Indication
- ★ Talk/Wait Circuit
- ★ Voice Line Monitor and Dialer
- ★ xDSL Line Monitor

The ATV-25 Construction Test System provides efficiency, accuracy, and electronic reporting for construction and maintenance projects.

The ATV-25 combines the capabilities needed to complete new construction and verify existing service on pairs.

#### Benefits

- ★ Low-cost cable verification system makes it economical to deploy to more craft people
- ★ Test results can be uploaded and used to verify phone company records
- ★ Easy to use single pair testing and bulk testing for faster completion and deployment
- ★ Internal memory and PC software makes recording and reporting test results easier and more accurate
- ★ Reduces equipment with comprehensive features for working pair, vacant pair testing, and support features in one unit
- ★ Detailed test data on defective pairs helps target repair dispatching
- ★ Better field testing during construction reduces repair tickets and costs
- ★ Lower service costs with field upgrades



## Testing and Electronic Data Records

The ATV-25 provides the essential features for testing new construction and verifying existing services. Testing can be accomplished twenty-five pairs at a time or a single pair. Electronic test data records ensure that results are reported without transcribing errors or the need for manual record sheets.

Accurate test results help verify construction orders, CO data records, contractor performance, and more.

Dispatching is aided with the availability of complete electrical test results. Testing includes xDSL circuit identification and assigned number retrieval.

## ATV Tools Software

The ATV Tools software allows users to upload test data to a PC or download firmware updates and configuration information. The included ATV Tools Software makes it convenient to load multiple ATV-25 units with standard configuration setups to ensure consistent test results.

Electronic test data is saved as industry standard XML files. This capability allows the data to be processed by databases, spreadsheets, and other software.

## Pair Tagging

The ATV-25 provides pair tagging capabilities to identify cable pairs. The ATV-25 sends AC and DC measurements of the test pair to a remote ATV-25 which scans and matches the values to a pair in a 25 pair module. This feature is faster and more accurate than manual tone probe procedures.

The ATV-25 also includes an automatic 577 Hz ID Tone Search. The ATV-25 searches the 25 pair module for the presence of 577 Hz tone.

## Optimized Testing

The ATV-25 automated testing includes standard tests for *working* and *vacant* pairs. Users can further optimize testing by configuring tests for only those measurements needed to decrease test time and target specific performance criteria.

Fault Limits can be adjusted to meet the specific testing requirements. Reference pair length can be measured from a cable pair or manually entered. The Rapid Scan test compares pairs to the reference and flags pairs that fail the reference pair length fault limits.

## Innovative Metering

The ATV-25 features an innovative multi-mode meter that displays open length, resistance, or voltage for Tip to Ring, Tip to Ground, and Ring to ground on one continuously updated screen. The user quickly gets a complete view of the pair's electrical characteristics.

## Specifications

Size:	7.85 x 6.2 x 3.1 inches
Weight:	5 lbs
Operating Temp:	0 to 140°
Power Supply:	12 VDC @ 1A, 5.5 mm jack
Internal Battery:	7.2 VDC
Display:	320 x 240 LCD, backlit
Operation Time:	10 hours
Charge Time:	4 hours
Program Updates:	Download via USB port and ATV Tools software
PC Interface:	USB 2.0

Function	Range
DC Voltage	±300 V
AC Voltage	200 Vrms
Resistance	≤ 10MΩ
Opens	110,000 feet
Capacitive Balance	90% to 100%
Longitudinal Balance	15dB to 120dB
Load Coil Detection	4 coils ±1
Loss (mW reference), 3 kHz flat	-3 dB to -60 dB
Metallic Noise (quiet termination), 3 kHz flat	10dBrn to 80dBrn
Power Influence, 3 kHz flat	45 dBrn to 130 dBrn
Loop Current	0 to 65 mA

Additional Features	Description
Assigned Number Retrieval	ANAC and CID
Working Circuit Identification	T1, ISDN, ADSL ADSL2, ADSL2+, HDSL
Modular Pair Tagging	25 pair, AC/DC match or 577 Hz Search
Bulk Pair Testing	25 Pair
Reference Pair Comparison	Measured or manual entry of reference open length
Special Circuit Lockout	Prevents disturbing sensitive data circuits
Spectral Plot	60 kHz to 1.1 MHz
ID Tone	577 Hz @ 10Vpp
Voice Line Monitor/Dialer	Single Pair Cord or Module
xDSL Line Monitor	Single Pair Cord or Module
Talk/Wait Circuit	12VDC @ 40mA max.
CO List	Rapid entry of CO information
Location List	Rapid entry of Location information
User List	Rapid entry of user information

**Allied Analogic, Inc**

[www.AALogic.com](http://www.AALogic.com)

132 Redtail Ct., Weatherford, TX 76088

Phone: (817) 599-0272

FAX: (925) 369-7912

© Copyright 2007 Allied Analogic, Inc., All Rights Reserved. Specifications and features are subject to change without notice.