List of Tutorial Videos on the Operation and Maintenance of Ambient Air Monitoring Equipment

RM Young Training

https://www.youtube.com/watch?v=oqrvzPMIUj8

Learning Learning Objectives:

1) Understand the mechanics on how the RM Young Wind Monitor measures wind speed and wind direction
2) Be able to install and perform routine maintenance on an RM Young Wind Monitor.
3) How to wire a RM Young Wind Monitor into a Campbell Scientific CR1000 datalogger.

R.M. Young Wind Monitor Bearing Replacement

https://www.youtube.com/watch?v=a7PPHedn-AU

Learning Objectives:

1) An instructional video produced by the manufacturer, the R. M. Young Company, to assist customers in the process of replacing bearings on the R.M. Wind Monitor.
2) Additional instructional video: https://www.youtube.com/watch?v=O_leZ1Wtnfk

R.M. Young Wind Monitor Direction Calibration

https://www.youtube.com/watch?v=3VKFGUAXOF0

Learning Objectives:

1) An instructional video produced by the manufacturer, the R.M. Young Company, to assist customers in the process of calibrating an R. M. Young Wind Monitor for wind direction. One of two available calibration fixtures is required: Either a bench stand unit or a pole-mounted unit that may be used in the field.

R.M. Young Wind Monitor Speed Calibration Check Procedures

https://www.youtube.com/watch?v=RkEsiANll8U

Learning Objectives:

1) An instructional video produced by the manufacturer, the R. M. Young Company, to assist customers with the process for checking the wind speed calibration of an R. M. Young Wind Monitor.

CR300 Datalogger QuickStart

https://www.campbellsci.com/videos/cr300-datalogger-quickstart-part-1

1) Be able to install required driver, connect the CR300 to a computer, generate a program for datalogger to read a meteorological sensor and record measurements, wire your sensor to datalogger, send program you just generated to datalogger, view real-time measurement values, collect and view data.

CR1000x Datalogger QuickStart

https://www.campbellsci.com/start/cr1000x#slide=115

Learning Objectives:

1) Be able to install required driver, connect the CR300 to a computer, generate a program for datalogger to read a meteorological sensor and record measurements, wire your sensor to datalogger, send program you just generated to datalogger, view real-time measurement values, collect and view data.

Datalogger Collection

https://www.campbellsci.com/videos/collect-data-tutorial#slide=40

Learning Objectives:

1) One of the goals of datalogging is to copy the data from the datalogger memory to a computer so that it can be analyzed further. You will be able to understand how to collect data using the following:
    a. Automatic or Scheduled Collection: LoggerNet can be setup on an automatic data collection schedule. Use the Status Monitor to quickly see the status of data collection throughout your network.
    b. Manual - Collect Now: LoggerNet, PC400, PC200W and LoggerLink are used to retrieve the data from the datalogger on demand or manually.
    c. Manual - Custom Collect: LoggerNet can also do specialty or custom data collection.
    d. Manual - Physical Collection: External data storage devices can be used for convenient data retrieval from the field. These devices use a variety of technologies, including USB, CompactFlash, and microSD.

EZSetup Ethernet Connection

https://www.campbellsci.com/videos/ezsetup-ethernet-connection

Learning Objectives:

1) Be able to use the EZSetup wizard to set up IP communication between the computer and datalogger.

CR310 Datalogger Ethernet Communication Setup

https://www.campbellsci.com/videos/cr310-ethernet-quickstart#slide=62

1) This tutorial will take you through the steps to set up an Ethernet connection between a CR310 and computer.
   a. If you're just unpacking your CR310, start with the Let's Go! Tutorial at: https://www.campbellsci.com/videos/cr300-and-cr310-getting-started-tutorial#slide=35

API Teledyne T640 Particulate Matter Mass Monitor Rooftop Installation

https://www.youtube.com/watch?v=8H5NmNgBg1M

Learning Objectives:

1) This tutorial will take you through the tools needed and steps on how to install an API T640 PM monitor and extension tube onto a rooftop.

T640 Optical Chamber Cleaning Procedure

https://www.youtube.com/watch?v=qAtlBgTxOds

Learning Objectives:

1) Learn step by step procedures on how to clean the optical chamber in the T640 PM mass monitor.

API Teledyne T640 Particulate Matter Mass Monitor PMT Check

https://www.youtube.com/watch?v=pZYnXwYwtIs

Learning Objectives:

1) This tutorial will take you through the steps on how to perform a PMT check or adjust on the API T640 PM monitor.

Updating the Firmware in a T-Series Instrument with NumaView™ Software

https://www.youtube.com/watch?v=M1ITIOuPG_M

Learning Objectives:

1) This tutorial demonstrates how to update the firmware in your T Series instrument with NumaView™ Software.

How to Purge a Cylinder Gas Regulator

https://www.youtube.com/watch?v=rSU6jcdPMr4

Learning Objectives:

1) Learn how to properly purge and clean your regulators for ambient air monitoring.

Reaction Chamber Cleaning TAPI T200 Series

https://www.youtube.com/watch?v=YT7b13tr3TU

1) Learn how to clean the reaction chamber and sample/ozone orifices on an API Teledyne T200 series Teledyne API Chemiluminescence analyzer.

T100 UV Lamp Adjustment Procedure

https://www.youtube.com/watch?v=PF6MGK1FftQ

Learning Objectives:

1) Learn step by step procedures on how to adjust the UV lamp in an API Teledyne T-Series SO2 analyzer with NumaView™ Software to ensure your instrument operates at peak performance.

T703/T703U Leak Check

https://www.youtube.com/watch?v=wMLtaexvju0

Learning Objectives:

1) Learn how to perform a leak check on your Teledyne API T703/T703U Photometric Ozone Calibrator during initial startup, following any maintenance, or during annual preventative maintenance.

Backpressure Compensation Calibration

https://www.youtube.com/watch?v=SyB0aKtrvYo

Learning Objectives:

1) Learn how to perform a back pressure compensation calibration on a Teledyne API T700 Calibrator.

Critical Flow Orifice

https://www.youtube.com/watch?v=5d4Gm1OGbK8

Learning Objectives:

1) Learn how to rebuild a critical flow orifice for API Teledyne T-series analyzers.

PM10 Inlet Head Cleaning Instructions

https://www.youtube.com/watch?v=iTkeQcYPgDg

Learning Objectives:

1) Learn step-by-step how to clean a PM10 inlet head.

BAM 1020 Recommended Monthly Maintenance

https://www.youtube.com/watch?v=vmdAiJJRS4Y

Learning Objectives:

1) As found leak check

2) Settings verification
3) Nozzle/vane/pinch rollers cleaning
4) Nozzle/shuttle check
5) As left leak check

Note that not all air monitoring sites are equal. Some sites may require more frequent maintenance depending on local conditions. 2018/02/03 - Remember to update your operator's manual to revision U 2018/02/03 - Current main firmware is 3236-05 V3.12.1 2020/01/10 - Remember to update your operator's manual to revision W 2020/01/10 - Current main firmware is 3236-05 V3.14.3

BAM 1020 Monitor Setup and Basic Maintenance

https://www.youtube.com/watch?v=w11vV8-SMK4

Learning Objectives

1) Learn how to setup and maintain a BAM 1020 Mass Particulate Monitor

Push-to-Connect Fittings Explained

https://www.youtube.com/watch?v=qtWLFKpItz8

Learning Objectives:

1) Learn how push-to-connect fittings work and how to insert and remove tubing from these fittings.

How to Setup a Met One Instruments, Inc. ES-405, Portable Particulate Monitor

https://www.youtube.com/watch?v=O9R_0RuafEQ

Learning Objectives:

1) Learn how to setup a tri-pod Met One Instruments, ES-405 Portable Particulate Monitor for fast deployment (PM1, PM2.5, PM4, PM10, Real-time)

How to Setup a Met One Instruments, Inc. E-SEQ-FRM, Particulate Monitor

https://www.youtube.com/watch?v=vGtAgdkvm3k

Learning Objectives:

1) Learn how to setup a Met One Instruments, E-SEQ-FRM, Sequential Reference Particulate Sampler (Filter-Based sampler for PM10, PM10-2.5, PM2.5)

Met One Insturments, Inc. BAM-1020 EPA TSA Training Video

https://www.youtube.com/watch?v=4JLIvE4ccss

Learning Objectives:

1) Basic overview of the BAM-1020, flow system, measurement system, data system and maintenance.

2) Overview of the EPA Technical System Audit Training (Checklist) for the BAM-1020 monitor.

How to Download Data from TSI Instruments Using Standard TrakPro Software

https://www.youtube.com/watch?v=SZdZZieaspk

Learning Objectives:

1) Learn how to use TSI TrakPro (standard version) to download data from TSI DustTrak 8530, DustTrak DRX 8533, DustTrak DRX 8534, DustTrak Handheld, VelociCalc, Q-Trak, P-Trak, and AM 510.

Calibration and Operation of High Volume Mass Flow Controlled Ambient Particulate Sampler

https://www.youtube.com/watch?v=QPuuOPdJ77s

https://www.youtube.com/watch?v=nqyT_FG_GNs

https://www.youtube.com/watch?v=YSujms6VSiY

https://www.youtube.com/watch?v=nZJMqX3kBEw

Learning Objectives:

1) Learn how to calibrate and operate a Tisch Environmental Mass Flow Controlled High Volume Ambient Particulate Sampler.

2) Calibration Worksheets can be found at https://tisch-env.com/calibration-worksheets/

   Phone: 1-877-263-7610
   Fax: 513-467-9009
   Email: Sales@tisch-env.com
   Web: http://www.tisch-env.com

Converting High-Volume PM10 to PM2.5

https://www.youtube.com/watch?v=2ngM7qDmDAc

Learning Objectives:

1) Learn how to convert a Tisch Environmental High Volume PM10 Air Sampler to PM2.5.

Agilaire AirVision and 8832/8872 Data logger Training Videos

https://agilaire.com/video-training-resources/

Learning Objectives:

1) Learn basic AirVision database data editor features such as: parameter (mulit-parameter) charting, side-by-side data comparison, set annotation to data, batch editing, set AQS null coding, set AQS qualifier coding, child/parent relationship between parameters, and exporting reports (to pdf, excel, csv, html, text files).
2) Learn basic AirVision database report features such as calibration reports, daily summary reports, monthly reports, task report scheduling and basic security configurations/permissions.
3) Learn how to setup GSI and Modbus channels in Airvision and how to use the import tool, setup instrument polling, create e-mail alarms, and how to backup and restore database.
4) Learn 8832/8872 basic functions and features.