TELEDYNE ADVANCED POLLUTION INSTRUMENTATION Everywhereyoulook

Service Note

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> <u>14-010 A</u> Oct 28, 2014

AE33 – SOFTWARE UPDATE

I. <u>PURPOSE</u>:

To inform our customers obtaining the latest software version's AE33.

II. TOOLS:

None

III. <u>PARTS</u>:

None

This service note is regarding to update the latest software version's AE33. We recommend that all customers using Aethalometer Model AE33 use the latest software version to make it reliable on the performance and avoid minor errors.

To update software on Aethalometer Model AE33, there are two methods.

- Methods 1 of 2: Updating From Flash Drive (USB).
 - o The latest software version of AE33 on the Flash Drive.
 - On the OPERATION mode → GENERAL → STOP (Figure 1-1).

HOME	OPERATION	DATA		
GENERAL A	DVANCED LOG	MANUAL		
TimeBase Flow	60 s 5 LPM	Start	Stop	
Flow Rep. Std. P 1013	EPA	Stability	Clean air	
O TA INT O TA Time	12 h Sep 09 2014 02:15:54	Verify flow	ND test	
Time & Date Time zone	Sep 15 2014 08:15:52 (GMT) Coordinated Univ	DST ersal Time	1	
Auto Clean Air			Shut down	

Figure 1-1

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 $\circ~$ Insert the Flash Drive into USB slot from front panel (figure 1-2).





• Then, go to Operation \rightarrow Advanced \rightarrow Update (Figure 1-3).

HOME		OPERA	TION	DATA		4 1		ABOUT	
GENERAL	ADVANCED LO		OG MANUAL						
State 1		Flow I to				ma Arix) LED or	Detector err	
Controller status		Flow1 (m		346t	Ch1 [18.47]				
Dehector status		Pump (ne	Cost 3						
LED status		Flow sera	or I		013		0	0	
TA status		Flow sensor 1			Ch4				
Table senace left		Overriber status			05				
Tape sensor nont		Chamber position			cho.				
TapeAdvance left		Volve status			057				
ATE#1 10 2		Kmay	0.015	Dofte fo	amat		MUS.	Dev	
AR42 30 0		Krith		Menu	re three s	statuto (DiBefore	🛛 🖂 After	
Waters sauintervial (a	un) []]	Aff I	1	Ekoroei	qitrya.		RUVPM	Proc EB	
Firmware version		Abb		Otpla		DON	R Save	C AUD OF	
Software version						Tranta			
IP addres 127.0.0.1		HowCal		TapesenAdj		LED adjust			
Server IP address							_		
E AutoCornect			Change Tape		External device		Update		
Serial number AF37-502-00173									

Figure 1-3

• Update Procedure window will be appearing (Figure 1-4).

UPDATE PR	OCEDURE	
SOFTWARE	FIRMWARE	
Sie		Cancel

Figure 1-4

• Select Software and wait until it is completed (~45 seconds) then select OK, the instrument will restart (Figure 1-5/ 1-6).

HIDDATE BOOCEDURE	UPDATE PROCEDURE			
UPDATE PROCEDURE	Application successfully copied. The instrument will restart after you press OK.			
Updating application. <u>Do not power off</u> the instrument while updating.				
	ОК			

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Figure 1-5 Figure 1-6

- o Remove Flash Drive from AE33's front panel
- To verify the software has been updated, on the OPERATION
 - mode \rightarrow ADVANCED \rightarrow Software version x.x.x.x (figure 1-7).

HOME		OPERATION		DATA			ABOUT	
GENERAL ADVAN		NCED	NCED LOG		MANUAL			
	1			5258				
				4107		18.47	0	0
			(with)	582		14.54		
		How sine		579		13.14	0	
				489				
	224	Chariber status		10		10.35	0	0
	120			294				
	275			01100				
11111 10 7 2	0.07	stride	0.015				DUS.	MAL
ATNEZ 30 C	1.57	Kmtra	-0.005	Meenu	në brnë s		Distore	M Alter
and the second second	in the second	1.10		Home	diplay		ELAPH.	FT Proc BB
	1100 3	ath	1	Displa		DON	E Saver	DAMORE
THE REPORT OF THE PARTY OF THE	51.3	100		ad last	Links	Constanting of		
Settiware version 1.1.3.0			FlowCal		TapeSenAd) LED adjust			
	127	0.0.1						
Server 17 perform								
- AutoCorrect					External device			
Second mumber	AE33-582-00173			Contraction of the local division of the loc				

Figure 1-7

- Methods 2 of 2: Updating From a CompactFlash (CF) card.
 - Get a CF card (Figure 2-1) with the latest software version provided by Teledyne API.



Figure 2-1

• Shutdown the AE33 instrument on the front screen and turn switches power OFF of both Front and Back (Figure 2-2), and then remove a CF card from the back panel (Figure 2-3).

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Figure 2-2

Figure 2-3

• Insert a new CF card with the latest software on it (Figure 2-4).



Figure 2-4

• Turn the power switches ON, the AE33 will automatically update the software (Figure 2-5).

WELCO	DME TO AETHALOMETER START
COMMUNICATION INSTRUMENT DATA STORACE CONFIGURATION SETTINGS VALVES CHAMBER RUMP & FLOW DEVICE MONITORING	000000
	Start
	Program will autostart in 6 s

Figure 2-5

• To verify the software has been updated, on the OPERATION mode \rightarrow ADVANCED \rightarrow Software version x.x.x.x (Figure 1-7)

Contact the Teledyne API for more information.

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