TWO DIMENSIONAL INSTRUMENTS, LLC

Installation Qualification for OEM

This Installation Qualification documents is for use with the

TV2 Clean Room Monitor

Two Dimensional Instruments, LLC
P O Box 159
Crestwood, KY 40014
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Contents

Installation Qualification

nstrument Origin and Identification	3
nstrument Specification	4
Environment and Site Considerations	5
nstrument Delivery and Documentation	6
nstrument Safety	7
Assembly and Installation	8
Summary Report	9



Instrument Origin and Identification

Instrument:	TV2 monitor/logger
Model:	TV2-202ptr (Clean Room Monitor)
Instrument Description:	Clean Room monitor
Manufacturer:	Two Dimensional Instruments, LLC P O Box 159 Crestwood, KY 40014 www.e2di.com
Service Contact:	(877) 241-0042 (502) 243-0042
Serial Number:	
Condition When Received:	New Used Refurbished
Date Received:	
Installed Location:	
Purchase Order Number:	
Identification / Asset Number:	



Instrument Specifications

Parameters	Specified Range	Acceptable
Monitor:	Panel mounted with 4 screw posts Power connection – 2 screw terminals External N/O dry contact relay External Wired Ethernet connector for LAN Sensor connections two 4-wire 3.5mm jacks Mini USB socket for computer connection	
LCD	Color resistive touch screen 272 x 480 pixels Indicators: Green=OK, Red=power missing LCD size 2.5" x 4.5" Estimated LCD life >5 years	
Pressure Sensor:	Differential pressure span: -2"wg to +2"wg (Uncertainty ±0.007"wg) Repeatability ±0.5% On screen & alarm resolution 0.01"wG Two ports with 1/8" clear plastic tubes Attachment to monitor - 3.5mm 4-wire jack Maximum distance from monitor 170-feet Plastic enclosure 2" x 2" x 1"	
Temperature/RH Sensor:	Temperature Range –20°C to + 80°C Uncertainty ±0.03°C On screen & alarm resolution 0.01°C Wired to monitor - 3.5mm 4 position jack Maximum distance from monitor 170-feet Plastic enclosure 2" x 2" x 1" RH Range 0% to 100% Uncertainty ±3.0% Response time 5s On screen & alarm resolution 1.0%	
Battery Backup:	1100mAH Internal rechargeable lithium battery Will operate the LCD for > 72 hrs User access – No	
Power supply:	Switching power supply ac100-240 50/60hz Output 15vdc .8amps	
Shipping weight	2 lbs	
Comments:		



Environment and Site Considerations

Has the instrument been adequately acclimatized since transport or storage?				
	Yes	No		
Operating Parameters	Specified Range		Conditions Met	
	Monitor 0°C to 50°C			
	Pressure sensor –5.0"			
Ambient Conditions	Operating temperature			
	Temp/RH sensor	-20°C to 80°C		
	Tomp/Tit/Concer	0%RH to 99%RH		
Maximum Altitude	2000m (6000')			
	230vAC@50/60hZ			
Supply voltage	or			
	120vAC@50/60hz			
Supply Current (amps)	>1 amp			
Monitor	Panel mount secured			
Comments:	1			

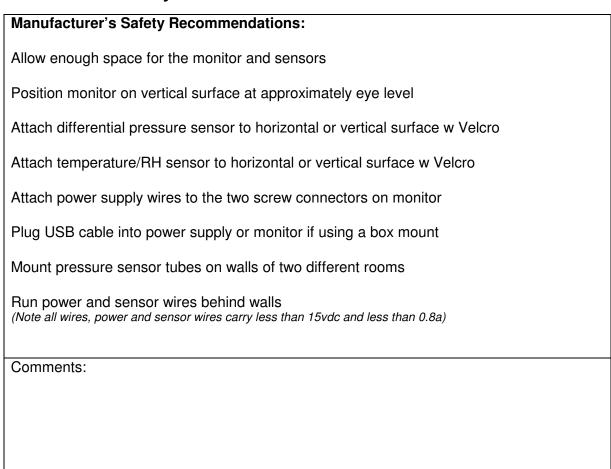


Instrument Deliver and Documentation

				1	
Items in Pa	ckage			Includ	ed
Panel Moun	t Monitor				
Pressure Se	ensor				
Temp/RH S	ensor				
Power supp	ly				
USB Cable					
Quick Start					
Wires for Se					
Is there any	damage to any compon	ents of the		Monito	r
	Yes		No		
If yes:	Description of damage:				
	Corrective Action:				
	Manufacturer Informed:	Yes	No		
Is standard	documentation included	l:			
			Present	Miss	ing
Quick Start	` ,				
	k Guide (QC)				
	e and Installation Manual (from www.e2di.com)	UG)			
Has the Use	ers Guide been download	ded from th	e 2di website	?	
https:\\www.	e2di.com/usersguides.htm	<u>l</u>			
Is all additi	onal documentation inclu	ıded?			
		Present	Missing		Not Requested
	Certificate (CC)				
	Qualification (IQ)				
•	ualification (OQ)				
Performance	e Qualification (PQ)				
Comments:					



Instrument Safety





Assembly and Installation

Assembled and Installed by: User OEM			
Installation Procedure:	ОК	Discrepancy	N/A
Unpack			
Position and mount the Easy-Touch monitor to allow access to the left end panel connections			
Position/mount pressure sensor with Velcro			
Position each of the two clear plastic tube ends in a different area between which differential pressure exists			
Position/mount the temperature/RH sensor with Velcro			
Run between and attach a four-conductor wire to the monitor and each sensor			
Run Cat 5 cable between monitor and an external Ethernet socket for easy user access			
Position USB socket for easy user access and attach wire to monitor			
Run a two-conductor wire between the N/O relay and external alarm if using an external alarm			
Attach two-conductor wire from power supply to monitor			
Plug power supply into wall socket			
Note: Before removing power from the monitor, put it into o	deep slee	p mode	
Comments (including discrepancies):			



Summary Report

Serial Number:

Instrument: Clean Room Monitor Manufacturer: Two Dimensional Instruments, LLC					
Assessment of Complete No Devi			on: viations	(List below)	
Deviation	Impact on Operation		Justification for Acceptance		
Successful completion of the has been satisfactorily deliver Qualification procedure and	ered and	installed. The	instrumen	t has passed t	the Installation
IQ Completed By:				Date:	
Deviations Approved by:				Date:	
IQ Approved by:				Date:	