

8. PC Software Description "Smart Manager"

8.1. Program Description

Smart Manager is easy to use tool to control **PTTC** controller.

The PC software is showing all PTTC-01-ADV menus in one window.

SmartTEC	and the second second					-		-					×
1.	Cort	roller		2.				D	etection Mod	ule			5.
Name: PTCC-1-	ADV	Load Configu	iration fron	n File	Name:	PIP-D	C-200M	-F-M8	Detector	Type:	PVM-2TE	-10.6-1X	1
Serial: 000031-:	15	Save Config	uration to	File	Serial:	00025	7-15		Detector S	Serial:	081624-	00	
Settings				3.	Settings								6.
Module Supply Enable:	UTO OFF 0	N			Dete	ctor Bias Voltage:	0	- 1)			Edit	
Supply Positive Voltage:	9,000 V		+	Edit	Dete	ctor Bias	0	-	 		- +	Edit	
Supply Negative Voltage:	-9,000 V		+	Edit	Pre	amplifier		VIV				-	
Fan Supply Enable:	UTO OFF O	N				Gain:	5,0 💌	V/V	/8 -			Edit	
Detector	224.000 K			Edit	DC Preamo 1	Offset:	58	-			+	Edit	
Temperature: TEC Maximum	1 2000			Edit	Frequency	Comp.:	2249	-			+	Edit	
Current:	1,2000			Luit	c	Signal oupling:	AC	DC	Preamplifier Bandwidth:	LOV	MID	HIGH	
			Use De	aults	1 Transimp	st Stage edance:	LOW	HIGH					
Monitor				4.									
Supply Positive Voltage:	OFF V	TEC Voltage:	0,000	v				U	ser Settings:	l.			
Supply Positive Current Consump.:	OFF mA	TEC Current:	0,0000	А				1 _	Load Store		1	Use Defa	ults
Supply Negative Voltage:	OFF V	Detector Temperature:	130,840	к	Monitor								7.
Supply Negative Current Consump.:	OFF mA				Dete	ctor Bias Voltage:	0,0	000 V	Module Enclosu Temperatur	ire:	29,0	С	
Fan Supply Current:	58,0 mA				Pre 1st Stage	amplifier Voltage:	0,0	000 V					
Device 13	32 ERROR: T	H open circuit			Pre Output	amplifier Voltage:	-0,0	002 V					
				uto									uto U .

1. PTCC version & serial number

- 2. Storing/loading PTCC & IR detection module configuration data
- 3. PTCC settings
- 4. PTCC monitor
- 5. IR detection module & detector parameters
- 6. IR detection module settings (available only for PIP)
- 7. IR detection module (available only for PIP)
- 8. Automatic PTCC/PIP monitor update

Usually, user settings are available for the adjustment within factory limits (narrower than the hardware limits). For example, if the IR module power supply is +/- 9 V, then allowing the user to manipulate the supply voltage with no limits is considered as a potential source of the module damage. The limits are applied in the factory and user is unable to adjust the values in full range.

In the PC software, there is a green part of the slider showing the parameter range available for the user, or the buttons are clickable. Unavailable buttons are grayed instead.



Unavailable buttons are grayed instead.

Αυτο	OFF	ON
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8.2. Smart Manager First Use

To start using the Smart Manager connect PTTC module to USB port in Your PC and open the Smart Manager.

🔩 Smart Manager 🛛 📃 🗾					
<u>D</u> evices <u>O</u> ptions <u>H</u> elp					
Name	Serial	Manufactured	Port		
Smart TEC	000614-14	2014-11-24	СОМ19		
2014-12-28 16:52:13 Searching	for devices I	NOT FOUND !	*		
2014-12-28 16:52:13 READY	for devices 1				
2014-12-26 10:52:32 Searching 2014-12-28 16:52:32 READY	for devices i	NOT FOUND !			
2014-12-28 16:52:58 Searching	for devices :	1 device(s) found.			
2014-12-28 16:52:59 READY		(-) / ••••••••	=		
			Ψ.		

You can see a device list if the list is empty check USB connection and reload device list. Devices >> Reload Devices List

Chose the devices that You want to control and click two times on chosen element.

SmartTEC		×				
Co	ontroller	Detection Module				
Name: PTCC-1-ADV	Load Configuration from File	Name: PIP-DC-200M-F-M8 Detector Type: PVM-2TE-10.6-1X1				
Serial: 000031-15	Save Configuration to File	Serial: 000257-15 Detector Serial: 081624-00				
Settings		Settings				
Module Supply Enable: AUTO OFF	ON	Detector Bias 0 - + Edit				
Supply Positive 9,000 V	- + Edit	Detector Bias 0 - + Edit				
Supply Negative Voltage: -9,000 V	- + Edit					
Fan Supply Enable: AUTO OFF	ON	Gain: 5,0 V/V 78 - + Edit				
Detector 224 000 K		DC Offset: 58 - + Edit				
Temperature: 224,000 K		Frequency Comp.: 2249 - + Edit				
Current: 1,2000 A		Signal AC DC Preamplifier Coupling: AC DC Bandwidth: LOW MID HIGH				
	Use Defaults	1st Stage Transimpedance: LOW HIGH				
Monitor						
Supply Positive Voltage: OFF V	TEC 0,000 V Voltage:	User Settings:				
Supply Positive Current Consump.: OFF m	A TEC 0,0000 A	Load Store Use Defaults				
Supply Negative Voltage: OFF V	Detector Temperature: 130,840 K	Monitor				
Supply Negative Current Consump.: OFF m	A	Detector Bias 0,000 V Module Enclosure 29,0 C Temperature:				
Fan Supply 58,0 m	A	Preamplifier 0,000 V 1st Stage Voltage: 0,000				
Device 132 ERROR	: TH open circuit	Preamplifier -0,002 V Output Voltage:				
	🔽 Auto	✓ Auto				



8.3. Update Procedure

Smart Manager automatically check if any updates to PTTC software are available. If software to update is available Smart Manager send communicate to user.



When user allow to update Smart Manager start update procedure.

Firmware Upgrade						
Firmware Upgrade						
Instructions: 1. Turn off your PTCC (2. Press FIRMWARE UF 3. Holding FIRMWARE (4. Click <start> button 5. Wait for complete.</start>	device. PDATE button on your PT UPDATE button, turn on below.	FCC device. the device.				
Start	🕄 Retry	🗙 Cancel				

User have to follow Instruction showed in Firmware Upgrade window.

Firmware Upgrade						
	Firmware Upgrade					
Verifying data						
Please wait						
Start	2 Retry	🔀 Close				





9. Safety Instructions

To ensure safe and failure-free operation of the SmartTEC controller, comply with the following precautions:

