

XR01CX DIGITAL THERMOSTAT

XR02CX DIGITAL CONTROLLER WITH "OFF CYCLE" DEFROST XR03CX DIGITAL CONTROLLER WITH AUXILIARY RELAY XR04CX DIGITAL CONTROLLER WITH DEFROST RELAY

XR06CX DIGITAL CONTROLLER WITH DEFROST AND FANS MANAGEMENT

1592020280 Rel.1.0

OPERATING MANUAL

1. GENERAL WARNINGS

- 1.1 PLEASE READ BEFORE USING THIS MANUAL

 This manual is part of the product and should be kept near the instrument for easy and quick
- · The instrument shall not be used for purposes different from those described h
- cannot be used as a safety device.

 Check the application limits before proceeding.
- Dixell SrI reserves the right to change the composition of its products, even without notice, ensuring the same and unchanged functionality.

12 SAFETY PRECAUTIONS

- Check the supply voltage is correct before connecting the instrument
- Do not expose to water or moisture: use the controller only within the operating limits

 6.1 THE REGULATION OUTPUT (Only for XR01CX) avoiding sudden temperature changes with high atmospheric humidity to prevent formation
- Fit the probe where it is not accessible by the End User. The instrument must not be opened
- In case of failure or faulty operation send the instrument back to the distributor or to "Dixell S.r.l." (see address) with a detailed description of the fault.
 Consider the maximum current which can be applied to each relay (see Technical Data).
- Ensure that the wires for probes, loads and the power supply are separated and far enough
- from each other, without crossing or intertwining.
 In case of applications in industrial environments, the use of mains filters (our mod. FT1) in
- parallel with inductive loads could be useful.

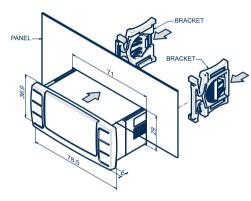
1.3 DISPOSAL OF THE PRODUCT

The appliance (or the product) must be disposed of separately in accordance with the local waste disposal legislation in force.

2. FRONT PANE

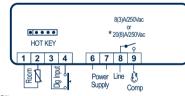


3. DIMENSIONS AND CUT OUT



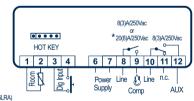
4. CONNECTIONS

XR01CX - XR02CX 8A or 20A COMP.



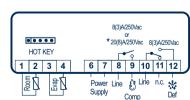
* 9\\ 16FLA(96LRA) 20(8)A 250V

XR03CX 8A or 20A COMP.



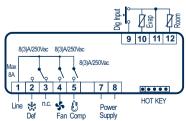
* 71 16FLA(96LRA) 20(8)A 250V

XR04CX 8A or 20A COMP.

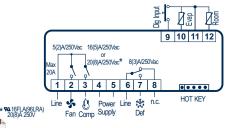


* 9\(\) 16FLA(96LRA) 20(8)A 250V

XR06CX 8A COMP.



XR06CX 16A or 20A COMP.



5. GENERAL DESCRIPTION

Model XR01CX, in 32x74x50 mm short format, is a single stage temperature thermostat suitable for applications in the field of refrigeration or heating. It provides a relay output to drive the compressor. It is also provided with 1 NTC probe input and one digital input. The instrument is fully configurable through special parameters that can be easily programmed through the keyboard or by the HOTKEY.

| Solution | Solution

Model XR02CX, in 32x74x50 mm short format, is a digital controller with off cycle defrost designed for refrigeration applications at normal temperature. It provides a relay output to 4. Press the SET key to display its value; drive the compressor. It is also provided with 1 NTC probe input and one the digital input. The 5. Use or to change its value; drive the compressor. It is also provided with 1 NTC probe input and one the digital input. The instrument is fully configurable through special parameters that can be easily programmed 6. Press SET to store the new value and move to the following parameter. through the keyboard or by the HOTKEY.

The XR03CV, in 32x74x50 mm short format, is microprocessor based controller suitable for applications on normal temperature refrigerating units. It provides two relay output: one for probe input and a digital input for alarm signalling, for switching the auxiliary output or for start defrost. The instrument is fully configurable through special parameters that can be easily programmed through the keyboard or the by HOTKEY.

The XR04CX, in 32x74x50 mm short format, is microprocessor based controller suitable for applications on normal or low temperature refrigerating units. It provides two relay output: one for compressor and the other one for defrost. It provides two NTC probe inputs, one for room First Level the decimal point is on. applications on normal or low temperature refrigerating units. It provides two relay output: one for compressor and the other one for defrost. It provides two NTC probe inputs, one for room temperature and other one to control defrost termination. The instrument is fully configurable through special parameters that can be easily programmed through the keyboard or by the

applications on medium or low temperature ventilated refrigerating units. It has three relay 10.8 TO UNLOCK THE KEYBOARD outputs to control compressor, fan, and defrost, which can be either electrical or reverse cycle outputs to control compressor, and, and derives, which can be either electrical or reverse cycle. (hot gas). It is also provided with 2 NTC probe inputs, the first one for temperature control, the second one, to be located onto the evaporator, to control the defrost termination temperature. and to managed the fan and it's provided with a configurable digital input. With the HOTKEY 11. DIGITAL INPUTS it's possible to program the instrument in a quick and easy way

6. REGULATION

The regulation is performed according to the temperature measured by probe. The instrument is provided with the CH programmable parameter wich enables the user to set the regulation both for heating or cooling applications:

CA' Serious external fan OFF.

Since the door is opened, after the delay time set through parameter di, the door alarm is enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled, the display shows the message dA and the regulation restarts if rd = y. The alarm enabled is the decorate of the decorate of

CH=cL --> cooling applications:

plus differential the compressor is started and then turned off when the temperature reaches input is de-activated.

temperature reaches set point value again. 7. DEFROST

TROCCX - XR03CX: Defrost is performed through a simple stop of the compressor. Parameter id controls the interval between defrost cycles, while its length is controlled by parameter Md.

YR02CX - XR03CX: Defrost is performed through a simple stop of the compressor. Parameter id controls the interval between defrost cycles, while its length is controlled by parameter Md.

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YR02CX - XR03CX - XR04CX - XR06CX: Two defrost modes are available through the td parameter

td=EL defrost through electrical heater (compressor OFF); td=in hot gas defrost (compressor ON).

Other parameters are used to control the interval between defrost cycles (id), its maximum length (Md) and two defrost modes: timed or controlled by the evaporator's probe. At the end of defrost dripping time is started, its length is set in the dt parameter. With dt=0 the dripping time is disabled

8. FANS (Only XR06CX)

- With FC parameter it can be selected the fans functioning:
- FC=cn will switch ON and OFF with the compressor and not run during defrost
- FC=on fans will run even if the compressor is off, and not run during defrost
 After defrost, there is a timed fan delay allowing for drip time, set by means of the

- FC=cy fans will switch ON and OFF with the compressor and run during defrost
 FC=OY fans will run continuously also during defrost.
 An additional parameter FS provides the setting of temperature, detected by the evaporator probe, above which the fans are always OFF. This is used to make sure circulation of air only if

his temperature is lower than set in FS. 8.1 FANS AND DIGITAL INPUT

When the digital input is configured as door switch iF=do, fans and compressor status depends on the dC parameter value

dC=no normal regulation dC=Fn fans OFF;

dC=cP compressor OFF;

dC=Fc compressor and fans OFF.

When rd=y, the regulation restart with door open alarm.

9. POWER DETECTION

 $The \, HLVD \, function \, provides \, an \, alarm \, if \, the \, voltage \, of \, the \, power \, supply \, out \, of \, the \, normal \, range \, is a function of the \, power \, supply \, out \, of \, the \, power \, supply \, out$

Parameters vc enable this function, vU and vL define the limitation threshold of the power, and if the voltage out of the range, the alarm will be triggered after the delay va. Then the system will go to the dedicate action according to the parameter vr.

 $\mathbf{vr} = \mathbf{n}$ the regulation not stop • vr=y the regulation stop
When the power back to the normal range, then alarm disappeared, the system will start to run

the normal regulation

10. FRONT PANEL COMMANDS

SET To display target set point, in programming mode it selects a parameter or confirm **

In programming mode it browses the parameter codes or increases the displayed

In programming mode it browses the parameter codes or decreases the displayed $\,$

₩ aux

KEYS COMBINATION

→ +

To lock or unlock the keyboard

SET + ♥ To enter in programming mode SET + To return to room temperature display

To start a manual defrost

+ To reset parameters

	LED	MODE	SIGNIFICATO						
	*	On	Compressor enabled						
		Flashing	- Compressor activation delay active (during						
			time)						
			- Compressor stop for mioroboor						
	***	On	Defrost inprogress						
		Flashing	- Defrost delay active (during time dd)						
			 Dripping in progress (during time dt) 						
	5	On	Fans output enabled						
		Flashing	Fans delay after defrost						
	ejp	On	Alarms happend						
		Flashing							
	40.4 1101								

10.1 HOW TO SEE THE SET POINT

- 1. Push and immediately release the SET key, the set point will be showed;
- $2. \, \text{Push and immediately release the \textbf{SET}} \, \text{key or wait about 5s to return to normal visualisation}.$ 10.2 HOW TO CHANGE THE SETPOINT
- 1. Push the SET key for more than 2 seconds to change the Set point value;
- 2. The value of the set point will be displayed and starts blinking:
- 4. To memorise the new set point value push the SET key again or wait 15s 10.3 HOW TO START A MANUAL DEFROST

Push the **DEF** & key for more than 2 seconds and a manual defrost will start, the pre-condition is evaporator probe temp lower than dE. 10.4 HOW TO CHANGE A PARAMETER VALUE

To change the parameter's value operate as follows:

1. Enter the Programming mode by pressing the SET+ > keys for 3s;
2. Select the required parameter.
3. Press the SET key to display its value (set value starts to blink);

3. Use ▲ or ➤ to change its value:

4. Press SET to store the new value and move to the following parameter

To exit: Press SET+

or wait 15s without pressing a key. NOTE: the set value is stored even when the procedure is exited by waiting the time-out to

expire. Please restart the controller after change the parameters

10.5 HOW TO RESET TO THE FACTORY PARAMETER VALUE

In the first 60s after controller power-on, it allows user to reset to the factory parameter through

key combination with steps below: Key combination with steps below.

1. Start pressing DEF key and for 5s;

2. Then release just four teep DEF key key another 5s. Then parameter reset successfully

by controller re-start automatically. • The Parameters Factory Reset function shall be accessible in the first 60 seconds from the

device power-on. The default configuration will initiate the loading, during this time all regulation will be interrupted, relays will be powered off, and the controllers is reset.

It allows user to reset to a customized parameter map through Hotkey, to download the parameters into the controller firstly, then execute the above 2 steps

Here is the setps to update to customized paraleter into the controller. 1. Save your own parameter map into a Hotkey 2. Plug-in the hotkey into the controller, power off the controller

3.Then power on the controller, the parameter into Hotkey will be downloaded into the controller automatically with display showing 'En' label.

NOTE: After reset to user parameter, it will be impossible to reset to Emerson parameter 10.6 HIDDEN MENU

menu includes all the parameters of the instrument

HOW TO ENTER THE HIDDEN MENU

1. Enter the Programming mode by pressing the SET+ ▼ keys for 3s (Set value starts

blinking);

Select the required parameter

6. Press SET to store the new value and mixed such that the new value and mixed such that the new value and mixed such that the new value and the new value

HOW TO MOVE A PARAMETER FROM THE HIDDEN MENU TO THE FIRST LEVEL AND

VICEVERSA.

First Level the decimal point is on.

10.7 TO LOCK THE KEYBOARD

Keep pressed for more than 3s the → and → keys.

The VRB6CX, format 32x74x60 mm, is microprocessor based controller, suitable for except places to improve that any state of the processor of the very state of the very state

Keep pressed together for more than 3s the ▲ and ▼ keys till the On message will be displayed.

The free voltage digital input is programmable in different configurations by the ${\it iF}$ parameter ${\it iF}$ parameters are the free voltage digital input in programmable in different configurations by the ${\it iF}$ parameter ${\it iF}$ parameters are the free voltage digital input in programmable in different configurations by the ${\it iF}$ parameters are the free voltage digital input in programmable in different configurations by the ${\it iF}$ parameters are the free voltage digital input in programmable in different configurations by the ${\it iF}$ parameters are the free voltage digital input in programmable in different configurations by the ${\it iF}$ parameters are the free voltage digital input in programmable in different configurations by the ${\it iF}$ parameters are the free voltage digital input in programmable in different configurations are the free voltage digital input in the voltage digital input input in the voltage digital input in the voltage digital input input

11.1 DOOR SWITCH (IF=do)
It signals the door status and the corresponding relay output status through the dC parameter: no = normal (any change); Fn = Fan OFF; CP = Compressor OFF; FC =

enabled, the display shows the message dA and the regulation restarts in tary, in a distribution of the starts are successful and stops as soon as the external digital input is disabled again. With the door open, the high and stops as soon as the external digital input is disabled again. With the door open, the high and probe alarms P1 and P2 start some seconds after the fault in the related probe; they

the set point value again.

1.3 SERIOUS ALARM (IF=bA)

4.6.3 HEATING APPLICATIONS (Only XR01CX)

When the digital injut is activated, the unit will wait for di delay before signalling the CA alarm Housing: self-extinguishing ABS.

Housing: self-extinguishing ABS.

Housing: self-extinguishing ABS.

Case: frontal 32x74 mm; depth 50 or 60mm.

is de-activated.

Mounting: panel mounting in a 71x29mm pa 11.3 SERIOUS ALARM (IF=bA)
When the digital input is activated, the unit will wait for di delay before signalling the CA alarm

11.4 SWITCHING SECOND RELAY ON (IF=Au) (Only XR03CX)
When o1=Au it switches on and off the second relay.

11.5 START DEFROST (iF=dF)

the dd safety time is expired. 11.6 INVERSION OF THE KIND OF ACTION: HEATING - COOLING (IF=Hc
This function allows to invert the regulation of the controller: from cooling from cooling to heating and

12. INSTALLATION AND MOUNTING Instruments shall be mounted on vertical panel, in a 29x71 mm hole, and fixed using the

special bracket supplied. The temperature range allowed for correct operation is 0+60°C. Avoid places subject to strong vibrations, corrosive gases, excessive dirt or humidity. The same recommendations apply to probes. Let air circulate by the cooling holes.

Data storing: on the non-volatile memory (EEPROM). Kind of action: 1B.

13. ELECTRICAL CONNECTIONS

The instruments are provided with screw terminal block to connect cables with a cross section Rated impulsive voltage: 2500V. up to 2,5 mm². Before connecting cables make sure the power supply complies with the Overvoltage Category: II instrument's requirements. Separate the probe cables from the power supply cables, from the outputs and the power connections. Do not exceed the maximum current allowed on each relay, in case of heavier loads use a suitable external relay.

The probes shall be mounted with the bulb upwards to prevent damages due to casual liquid infiltration. It is recommended to place the thermostat probe away from air streams to correctly measure the average room temperature. Place the defrost termination probe among the evaporator fins in the coldest place, where most ice is formed, far from heaters or from the

warmest place during defrost, to prevent premature defrost termination

14. HOW TO PROGRAM THE HOT KEY

14.1 HOW TO PROGRAM THE HOT KEY FROM THE INSTRUMENT (UPLOAD)

1. Program one controller with the front keypad:

2. When the controller is ON, insert the Hot key and push A key; the **uP** message appears

compressor and the other one for alarm signalling or as auxiliary output. It provides an NTC NOTE: the Er message is displayed for failed programming. In this case push again A key if you want to restart the upload again or remove the Hot key to abort the operation

14.2 HOWTO PROGRAM AN INSTRUMENT USING HOT KEY (DOV 1. Turn OFF the instrument;

4. After 10 seconds the instrument will restart working with the new parameters

5. Remove the Hot Key.

15. ALARM SIGNALLING

MESS.	CAUSE	OUTPUTS				
"P1"	Room probe failure	Compressor output according to "Cy" and "Cn				
"P2"	Evaporator probe failure	Defrost end is timed				
"HA"	Maximum temperature alarm	Outputs unchanged				
"LA"	Minimum temperature alarm	Outputs unchanged				
"EA"	External alarm	Outputs unchanged				
"CA"	Serious external alarm	All outputs OFF				
"dA"	Door Open	Compressor and fans restarts				

• CH=Ht. > heating applications.

• CH=Ht. > heating applications.

• COOLING APPLICATIONS

1.2 EXTERNAL ALARM (IF=EA)

1.4 External alarms are disabled.

4.5 Soon as the digital injust is activated the unit will wait for ditime delay before signalling the connections before replacing the probe. Temperature alarms HA and LA automatically stop with a positive differential from the set point: if the temperature increases and reaches set point. EA alarm message. The outputs status don't change. The alarm stops just after the digital as soon as the temperature returns to normal values.

Alarms EA and CA (with iF=bL) recover as soon as the digital input is disabled

Mounting: panel mounting in a 71x29mm panel cut-out.

Frontal protection: IP65. Connections: Screw terminal block 2,5 mm² wiring.

Power absorption: 3,5VA max

Display: 2 digits, red LED, 14,2 mm high **Inputs**: Up to 2 NTC. Digital input: free voltage contact.

Relay outputs: compressor: SPST 8(3) A, 250Vac; SPST 16(6)A 250Vac or 20(8)A 250Vac

defrost/aux: SPDT 8(3) A, 250 Vac fan: SPST8(3)A, 250Vac or SPST5(2)A.

Pollution grade: 2. Software class: A

Operating temperature: 0+60 °C Storage temperature: -25+60 °C

Relative humidity: 20+85% (no condensing).

Measuring and regulation range: NTC -40+110°C (-40+230°F).

Resolution: 0,1°C or1°C or1°F (selectable).

Accuracy (ambient temp. 25°C): ±0,7 °C ±1 digit DEFAULT SETTING VALUES

LABEL	DESCRIPTION	RANGE	XR01CX	XR02CX	XR03CX	XR04CX	XR06C
Set	Set Point	LS-US	5.0	3.0	3.0	-5.0	-5.0
Ну	Diff er ential	0.1 ÷ 25°C/ 1 ÷ 45°F	2.0°C / 4°F	2.0°C / 4°F	2.0°C/4°F	2.0°C / 4°F	2.0°C/
LS	Minimum Set Point	-55°C+SET/- 67°F+SET	-55 °C / -55°F	-55 °C / -55°F	-55 °C / -55°F	-55 °C / -55°F	-55 °C / -
US	Maximum Set Point	SET+99°C/	99 °C / 99°F	99°C/99°F	99 °C / 99°F	99°C/99°F	99 °C / 9
od	Outputs activation delay at start up	SET+99°F 0+99 min	0	0	0	0	0
AC	Anti-short cycle delay	0 ÷ 50 mi n	1	1	1	1	1
Су	Compressor ON time faulty probe. Cy=0 comp. always OFF	0 ÷ 99 mi n	15	15	15	15	15
Cn	Compressor OFF time faulty probe. Cn=0 comp. always active	0 + 99 min	30	30	30	30	30
СН	Kind of action	cL+Ht	cL	cL	cL	-	_
C F	Measurement units: "C = Celsius; "F = Fahr enheit Resolution (only f or "C): dE = decimal between -9.9 and 9.9 "C; in = integer	°C - °F dE – in	°C / °F dE/in	°C / °F dE/in	°C/°F dE/in	°C/°F dE/in	°C /
Ld	Default Display: P1=roomprobe; P2=evapor ator probe	P1-P2	GE/III	dE/III	GE/III	P1	P1
dy	Display delay	0 ÷ 15 min	0	0	0	0	0
ot	First probe calibration	-9.9+9.9°C/ -17+17°F	0	0	0	0	0
P 2	·						—
	Second probe presence: n= not present; y= present	n-Y	_	_	_	у	у
οE	Second probe calibration	-9.9+9.9°C/ -17+17°F	-	-	-	0	0
t d	Defrost type: EL= electrical heater, compressor OFF; in= hot gas, compressor ON;	EL-in	-	-	-	EL	EL
dE	Defrost termination temperature	-55+50°C/ -67+99°F	_	_		8.0°C/46°F	8.0°C/
i d	Inter val between def r ost cycles	0 ÷ 99 hour s	_	8	8	6	6
	Maximum length for defrost, when P2=n, (not evaporator probe; timed defrost) it						
M d	sets the defrost duration, when P2 = y (defrost end based on temperature) it sets the	0 ÷ 99 mi n.	-	20	20	30	30
	maximumlength for defrost.						
dd	Start defrost delay Display during defrost: rt= real temperature; it= start defrost temperature; SP=	0 ÷ 99 mi n.				0	0
dF	Display during derrost: rt= real temperature; it= start derrost temperature; SP= SET-POINT; dE=label dF.	rt-it-SP-dE	-	it	it	it	it
dt	Driptime	0 ÷ 99 min	_	_	_	0	0
dP	Defrost at power-on: y= at power on defrost starts; n= defrost doesn't start at power-on	y - n	-	-	-	n	n
	Fans operating mode: cn= in runs with the compressor, OFF during defrost; on=						
FC	continuous mode, OFF during defrost; cY= runs with the compressor, ON during	cn-on-cY-oY	-	-	-	-	on
	defrost; oY=continuous mode, ON during defrost.						
Fd	Fans delay after defrost	0 ÷ 99 mi n	_	_	_	_	10
FS AU	Fans stop temper atur e	-55+50°C/ -67+99°F AL+99°C/ AL+99°F	99 °C / 99 °F	99°C / 99°F	99 °C / 99 °F	99°C / 99°F	2.0°C/
AL	Maximum temperature alarm Minimum temperature alarm	-55°C÷AU/ -67°F÷AU	-55 °C / -55 °F	-55°C/ -55°F	-55 °C / -55 °F	-55 °C / -55 °F	99 °C /
Ad	T emper atur e al ar mdel ay	0 ÷ 99 min	15	15	15	15	15
dA vc	Exclusion of temperature alarmat startup Voltage control switch	0 ÷ 99 min	90 V	90 y	90 V	90	90 V
vU	Voltage upper threshold	18 ÷ 28 V/ 9 ÷ 14 V	25/ 14	25/ 14	25/ 14	25/ 14	25/
٧L	Voltage lower threshold	18 ÷ 28 V/ 9 ÷ 14 V	19/ 9	19/ 9	19/ 9	19/ 9	19/
va	Voltage alar mactive delay	0+99 sec	60	60	60	60	60
٧r	Voltage regulation disabling	n-y	у	у	у	у	у
vd	Voltage Differential	0 ÷ 25 V	10	10	10	10	10
02	The second relay configuration: nu= not use; CP= compressor; dF=defrost; Fn=fan;	nu - CP - dF - Fn - AL -	_	_	AU	_	_
iP	AL=alarm; LG=Light; AU=auxiliary Digital input polarity: oP=activated by closing the contact; cL= activated by opening	LG-AU	cL	cL	cL		cl
	the contact	02 01	o.	O.E.	02	-	0.
	Digital input configuration: (do/EA/bA/dF/Fn/Hc/Au) do= door switch function;						
iF	EA= external alarm: "EA" message is displayed; bA= serious alarm "CA" message		EA	EA	do	_	do
	is displayed; dF= defrost activation; Fn=start the evaporator fan; Hc= inversion of the kind of action; Au =not used.	Fn-Hc-Au	I	I		I	l
	Digital input delay: with iF=EA or bA delay between the detection of the external						-
di	alarm condition and its signalling. With iF=do it represents the delay to activate the	0 ÷ 99 min	5	5	15	_	15
	door open alar m.					_	
dC	Compressor and fan status when open door: no= normal; Fn = Fans OFF; cP	no/Fn/cP/Fc	no	no	no	_	FC
	=Compressor OFF; Fc = Compressor and fans OFF; Regulation with door open: n = no regulation if door is opened; Y = when di is elapsed						\vdash
r d	regulation with door open: n = no regulation in door is opened; Y = when di is elapsed regulation restarts even if door open alarmis present;	n - y	у	у	У	-	у
Fr	Parameter factory reset	y - n	у	у	У	у	У
d1	Ther most at probe display	Read Only					
d2	Evapor ator probe display	Read Only					
Pt	Par ameter code table	Read Only					