NEW CWP OPERATORS PANEL (HMI) – KEY DIFFERENCES

This Tech Note defines the key differences between the old E1032 operators panel (P/N 3029306) and the new touch screen X2 base 7 operators panel (P/N W3T572459). The E1032 operators panel, in production since S/N 1000583, has been obsoleted by the manufacturer. Therefore, the X2 base 7 and software program CM2001V2 were implemented on the CWP water system in October 2020.

E1032 and X2 base 7 Similarities

- Both the E1032 and X2 base 7 interfaces with the FX3U-48MR/ES PLC and software program RU0901V3.
- Both the E1032 and X2 base 7 use the same power cable 25-11163.
- Software can be downloaded through a USB 2.0 port on both the E1032 and X2 base 7.

Operator panel X2 base 7	Operator panel E1032			
CONTROL MODE: AUT TEST OPERATION: CONTROL MODE: AUT TEST OPERATION: C (Enter Code) RELECT CONTROL C (Enter Code) REL CONT, LEVEL 2 SETTING: (sur) REL CONT, LEVEL 2 SETTING: (sur) COMP BINO TECHNICAM ENVO MAIN MEINU Mon SHV2020 3 06 35 FM				
Color touch screen with graphically	Tactile keypad with small monochrome			
represented buttons	display			
800 × 480-pixel display resolution	240 x 64-pixel display resolution			
128 MB RAM Memory	64 MB RAM Memory			
200 MB FLASH Memory	12 MB FLASH Memory			
9pin DSUB RS422 serial port which uses serial cable W2T913509 (for HMI/PLC communication)	25pin DSUB RS422 serial port which uses serial cable W2T913500 (for HMI/PLC communication)			
Panel mount cutout size 186mm x 136mm	Panel mount cutout size 166mm x 149mm			
which fits controller doors:	which fits controller doors:			
 W3T578705 (101-102) 	 W3T578249 (101-102) 			
• W3T578704 (104-106)	 W3T578250 (104-106) 			
Does not require periodic replacement of the	Requires periodic replacement of the coin			
coin battery.	battery (4-year PM).			
Not supplied with null modem adapter.	Supplied with null modem adapter.			





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Operator panel X2 base 7	Operator panel E1032
The manuals specific to the X2 base 7 are as follows:	The manuals specific to the E1032 are as follows:
 W3T574219 (Installation) W3T574221 (Operators) W3T574220 (Service) W3T574218 (Startup) W3T574210 (Electrical, H model) W3T574209 (Electrical, S model) 	 W3T572849 (Installation) W3T572850 (Operators) W3T572851 (Service) W3T572852 (Startup) W3T572860 (Electrical, H model) W3T575877 (Electrical, S model)

Software Differences

Operator panel X2 base 7	Operator panel E1032	
Uses software program CM2001V2 (P/N W3T574311).	Uses software program RU0901V2 (P/N W3T575550).	
Screen turns black after 5 minutes without operator input and will restore brightness with a finger press.	Screen always on.	
GXL logging is not supported.	GXL logging is supported.	
Manual operation stop: STOP icon must be pressed and held for 2 seconds (represented by a progress bar).	Manual operation stop: STOP button must be pressed.	
Displays a time stamp for the latest disinfection in TECHNICIAN INFO.	Time stamp feature not supported.	
Displays a time stamp for the latest heat in TECHNICIAN INFO when return temperature ≥85°C for 10 minutes.	Time stamp feature not supported.	
10-minute minimum setting for SAFETY HW (adjustable in TECH INFO LEVEL 3).	1-minute minimum setting for SAFETY HW (adjustable in TECH INFO LEVEL 3).	
90-minute minimum setting for RINSE (adjustable in TECH INFO LEVEL 3).	50-minute minimum setting for RINSE (adjustable in TECH INFO LEVEL 3).	
Day/Date/Time and the screen title on lower right of all screens.	Day/Date/Time on Main Menu and Tech Info Level 2.	
MAIN MENU: LOCAL/REMOTE field removed (always LOCAL).	MAIN MENU: LOCAL/REMOTE field present.	



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Operator panel X2 base 7	Operator panel E1032		
 TECHNICIAN INFO LEVEL 2: DAY/DATE/TIME setting moved to the service menu. REMOTE mode removed. EXT. SIGN. TEST moved to the alarm screen and renamed TEST ALARM (no longer code 2 protected). LOGGING has been removed. New field for backlight brightness adjustment from 60%-100%. 	 TECHNICIAN INFO LEVEL 2: DAY/DATE/TIME setting present. REMOTE mode present. EXT. SIGN. TEST present. LOGGING present. 		
WATER SAVING CONTROL:	WATER SAVING CONTROL:		
 PART REJ. V138 has been removed. 	 PART REJ. V138 present. 		
 V138 XXX % X F1 has been removed. 	 V138 XXX % X F1 present. 		
TECHNICIAN INFO LEVEL 3:	TECHNICIAN INFO LEVEL 3:		
 LANGUAGE option removed (only English). Fields related to BIOSMOS removed. 	 LANGUAGE option present. Fields related to BIOSMOS present. Logging and internal logging fields 		
 Logging and internal logging fields removed. 	present.		

Service Menu Design (X2 base 7)

- The Service Menu (code 2 protected) is reached on the X2 base 7 HMI by power cycling the panel, touching and holding the screen for approximately 20 seconds and entering code 2. The following options may be useful to access through the Service Menu:
 - Date/Time: adjust Day/Date/Time, time zone, and enable automatic adjustment of daylight savings.
 - Touch Calibrate: the touch screen can be calibrated through this option.

Alarm Screen design (X2 base 7)

- Alarm Screen is accessed by pressing the ALARM icon like the E1032 panel. Differences at the Alarm Screen are:
 - An alarm line must first be selected (by pressing) to acknowledge using the Ack Selected button.
 - Multiple alarms can be acknowledged without selecting the alarm line by pressing the Ack All button.
 - TEST ALARM icon takes the place of ALARM at the Alarm Screen. Pressing this button and pressing "On" at the popup will test all lamps on the indication panel(s) and the alarm buzzer(s).
 - Representation of alarm state is different:
 - "Active" instead of "*"
 - "Acknowledge" instead of "-"
 - "Inactive" instead of "\$"
 - "Normal" instead of no symbol



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TIME CHANNELS Design (X2 base 7)

- Accessing the TIME CHANNELS is equivalent to the E1032.
- When a Time Channel is selected, a new screen will appear giving the following options:
 - Show/Edit an existing Time Period
 - Create a New Time Period
 - **Copy** an existing Time Period
 - **Delete** an existing Time Period
 - Save must be pressed to retain a change to the Time Period
 - This screen also contains a SHOW SCHEDULE "i" icon which will show all scheduled Time Periods in the TIME CHANNEL when pressed:



- When **Show/Edit**, **New** or **Copy** is pressed, a Time Period setup screen will appear:
 - A Time Period must be named by pressing the white field next to TIME PERIOD, typing the name on the popup keypad and pressing
 - Set the START and STOP time for Time Period operation.
 - Select the days of week for Time Period operation (active days are highlighted yellow).
 - Running a process over midnight requires two Time Periods to be scheduled. START to 24:00 (on day 1) and 00:00 to STOP (on day 2).
 - Time Periods are set using a 24-hour clock. Operator Panel time is managed using A.M./P.M time. Be mindful of this when scheduling Time Periods.



Screen navigation design (X2 base 7)

 Screen navigation differs slightly from the E1032, refer to the screen navigation diagram (for X2 base 7) on the following page:





CONTROL MODE:	MAN/AUT	DETAILED DISPLAY:	NO/YES		
EST OPERATION:	### (Enter Code)	MAX. TEMP. 1 RETURN:	### *C		
EJECT CONTROL:	### (Enter Code)	MAX. TEMP. 2 RETURN:	### °C		
and the second	MAN/AUT	LATEST HEAT:	Time Stamp		
EJ. CONT. LEVEL 2 SET: ((man)/(aut)	MANUAL HIGH TEMP. HW:	NO/YES		
Constantia Const		RUNNING TIME:	### hr		
CWP INFO TE	CHNICIAN INFO	FEED WATER:	### m3		
		N:0 DISINF:			
MAIN MEN	10	N:01 EVEL ALARM:	rime stamp		
		NO LET LE PERIO		PROGRAM TO:	WRO H/S
		TECH LEVEL 3 PROG	RAM VERSION	PLC PROGRAM:	*******
EED WATER:	##.# Vm			HMI PROGRAM:	*******
RODUCT WATER:	##.# Um	TECH LEVEL 2		PROGRAM	VERSION
IO REJECT:	##.# l/m			•	
ETURN FLOW/HW-CIRC.:	##.# Vm	TECHNICIAN I	NFO		
CONSUMPTION:	##.# Vm				
OND. IN:	### µ5/cm	(Code 2)	HIGH TEMP PERIOD 1	INTEGRATED HEA
IND. OUT:	### µ\$/cm	Teneral Press, 1 1917 75 195 1918		Distanti in sela distante su si sella	Chatten Addression
ELOVERY RATE:	*** %	STOP"	PRESS	HIGH TEMP PERIOD 2	INTEGRATED HEA
ELECTION RATE:	##.# 70	CHOICE		and the second sec	and the second data with the
EMP RETURN:	### °C	EAST STEPPING	NOVER	OPERATION 1	HOTWATER CIRC
EMP TANK:	### °C	LOCAL:	MANIALT	and the state of t	and the other designed in
ANK LEVEL:	EMPTY NOT FILL PLUE	STOP OPERATION:	MANUAUT	OFFICATION 2	HOTWATER CIRC
	NOT FULL/FULL	STOP HW CIPC	MAN/AUT		and the second second
CWP INF	0	DOCT DUN:	NOVEE	OPERATION 3	HOTWATER CIRC
		STANDBY FUICH	VES/NO	A STOCK OF	Second Statistics of the
	(Code 3)	STANDEY TO LOOP	NO/VES		
WP 100 TYPE	WRO H/	E ONLALADM IN OPERATIONS	VEC/NO		
	WRO S	LEAK ALARM DURING HW.CTRC	NO/VES		<u>,</u>
OUNTER:		EXTERNAL INDICATION OFF:	NO/VES	TIME PERIOD:	
TART UP:	### (5)m	ODEDATION BUTTED	NO/VES	0.37/2001-01	
AFETY HW:	### (10)m	LIMIT VALUES:	NUYTES	start 23:59 stor-	23:59
ISINE, INTAKE:	### (15)m	COND WARNING	222.05	andre concorr andre	20.00
IRCULATION:	### (15)m	COND. HIGH:	22215	Active (selected) days are high	vighted yellow:
UNSE:	### (90)m	LEAKAGE ALARM HW-CTRC:		Mo Tu We Th	h Fr Sa
B PAUSE:	### (120)m	INTEGRATED HEAT	a a Um	Concern language la	
B RUN:	### (10)m	NORMAL HW-CIRC	## 1/m		200
EST RUN:	### (20)m	ADJUSTMENT:	A. S.		Control
TME STOP OP:	## (5)m	FEED WATER US:	### %		Care
OST RUN:	### (60)m	PRODUCT WATER US:	### %		Constraint State
EG. TEMP. L:	## (61)°C	TEMP. COMPENSATION:	#.# %		
	## (63)°C	FEED:	### 115		
EG, TEMP. H:	## (91)°C	PROD:	### 115	MIN FLOW VITE	# # Un
	## (92)°C	TEMP. TANK:	###.# °C	RESET:	# # Un
EMP. ALARM:	## (84)°C	Z =	###.#	HYSTERESIS WEE	22.50
MAX, RETURN TEMP WRO °C		G =	###.#	P-FACTOR:	
ON:	## (32)°C	TEMP. RETURN:	###.# °C	PULSE LENGTH:	## 5
OFF:	## (28)°C	Z =	###.#	PULSE CYCLE:	222 4
LOW ALARM F1:	## Vm	G =	###.#	START PULSE:	## 5
ESTART DIS:	### (30)m	INLET FLOW F1:	### %	ADVANCED W	ATER SAVING
ESTART OP:	#### (60)5	##.# Vm		The Print was a first	
LUSH HW RO1:	## (5)m	REJECT FLOW F2:	### %		
-TEST P.1-3:	# (2) l/m	##.# Vm	200320-001		
.4:	## (10) Vm	RETURN FLOW F4:	### %	VALVE 138:	AUT/MAN
4 CONST. CHANGE:	NO/YES	##.# Vm			open/OPE
(r4: ##.# (/m)	The second second	COUNTERS:		10000000000000	close/CLO
5	#### ms	START UP:	## m	F1 (INLET):	##.# l/m
Ki crimono contra	#.#	SAFETY HW:	### m	F2 (REJECT):	##.# l/m
UND STANDARD SETTINGS:	NO/TES/DOL	DISINF. INTAKE:	## m	F4 (RETURN):	##.# Vm
NANGE OF DATA REG.	Dener	CIRCULATION:	## m	F5 (CONSUM.):	##.# Vm
NEG.		RINSE	### m	RECOVERY SET:	## %6
NEW:		SB PAUSE:	### m	HIGH TEMP. DIV:	## °C
GET:	No/Voc/Evit	SB RUN:	### m	RESET:	## *C
TMED	T) ###	THE FTOD OD	*** m	WATER SAVI	AG CONTROL
DUNTER:	C ###	TIME STOP OP:	## 11	Ť	
AUTOR.		POST RUN:	### m		
ADVANCED W	5	ADJUSTMENT	60.1000		
The same is the same of the same of the		ADUGTMENT	00-100.%		
TECHNICIAN INFO	D LEVEL 3	WS CONTROL TIM	E CHANNELS		

