

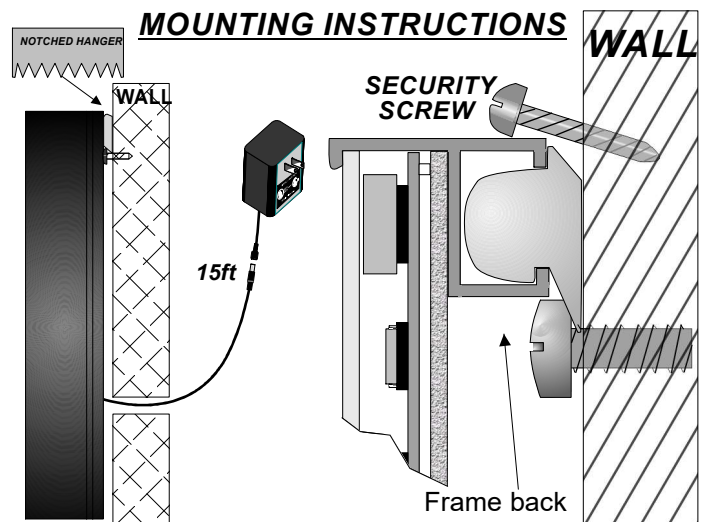
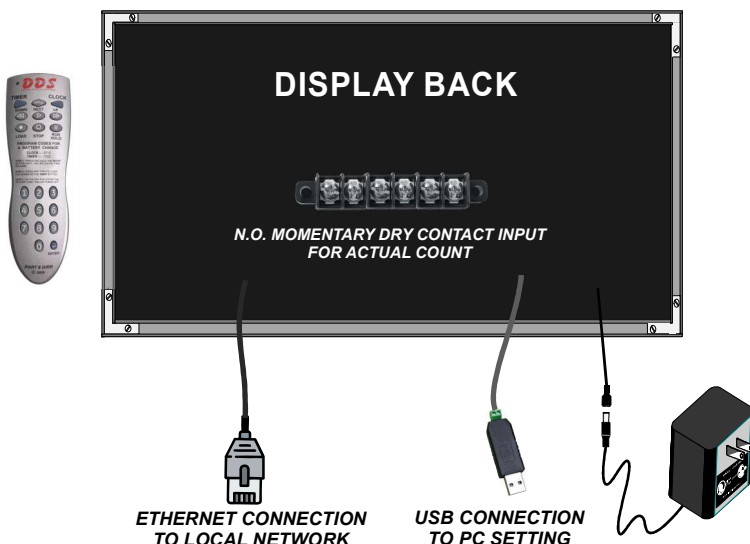


**TAKT:** COUNTS DOWN FROM SET START TIME. AT ZERO, RESETS TO START AND COUNTS DOWN AGAIN  
**GOAL:** AUTOMATICALLY INCREASES WHEN TAKT TIME = 0  
**ACTUAL:** MANUAL COUNT UP VIA UP/DOWN SWITCHBOX OR VIA DRY CONTACT(OPTIONAL)

# BPCN-49940-3-IRR-BOX-WO3-USB-ETHR

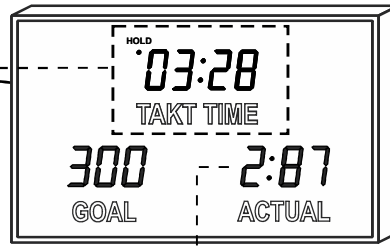
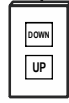
## SPECIFICATIONS

- TYPE:**----- DIGITAL
- DISPLAY:**----- 4-DIGIT, 7 SEGMENT RED SUPER BRIGHT LED
- CHARACTER HEIGHT:**----- 4" (101.6 mm) 9 THOUSAND 9 HUNDRED AND 99; 99 MIN AND 59 SEC
- VISIBILITY:**----- 250 Ft. (76.2 METERS)
- POWER REQUIREMENTS:** 100-240V 50~60Hz (**SWITCHING POWER SUPPLY**)
- FRAME:**----- 18.25" x 30.25" x 1.5" (**Black Anodized Aluminum**)
- WEIGHT:**----- 11 lbs.
- OPERATING TEMP.:**----- -17° TO 182° F
- HUMIDITY:**----- 0% TO 95% NON-CONDENSING
- OPERATING MODE** ----- ACTUAL COUNT UP BY 1 VIA 15-30 FT SWITCH BOX. GOAL AUTOMATICALLY INCREASES BY 1 VIA TAKT TIMER WITH RUN/HOLD AND RESET CONTROL; USB TO PC CONNECTION AND ETHERNET CONNECTION FOR WEB-BASED INTERFACE FOR HISTORICAL DATA



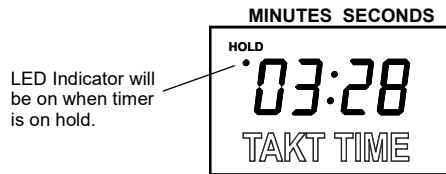
# BPCN-49940-3 Switchbox / IRR Instructions

- Switchbox Used For:**
- Counting Up on Actual
  - Counting Down on Actual
  - Hard Resetting Displays

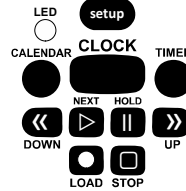


- IR Remote Used For:**
- Setting TAKT Timer
  - Running and Pausing TAKT Timer

*Flashing Colons: Display in Focus*



LED Indicator will be on when timer is on hold.



**If remote batteries are replaced, or if display does not respond to remote:**

- 1 Press and hold **(SETUP)** until remote LED stays on.
- 2 Press **(TIMER)**.
- 3 Enter clock code **(1252)** on keypad.

## SWITCHBOX INSTRUCTIONS

<b>Count Up / Down</b>	<b>(UP)</b> to increase count by 1 <b>(DOWN)</b> to decrease count by 1
<b>Freeze Actual Count</b>	Press and hold <b>(DOWN)</b> for 3 seconds until LED dot appears on Actual display. To resume, press and hold <b>(DOWN)</b> until dot disappears.
<b>Reset Actual Count</b>	Press and hold <b>(DOWN)</b> for at least 5 seconds until Actual display flashes 3 times. The Actual display will reset to 0 and the Process timer (if set) will reset to the preset time. Press and hold <b>(DOWN)</b> again until LED dot disappears to release from hold.
<b>Freeze TAKT Timer &amp; Goal Count</b>	Press and hold <b>(UP)</b> for 5 seconds until LED dot appears on Goal/TAKT Time display. To resume, press and hold <b>(UP)</b> until dot disappears.
<b>Reset Goal</b>	Press and hold <b>(UP)</b> for at least 5 seconds until Goal display flashes 3 times. The Goal display will reset to 0. Press and hold <b>(UP)</b> again until LED dot disappears to release from hold.

## IRR INSTRUCTIONS

<b>Pause TAKT Timer</b>	Press ● button on bottom left of remote. Device will display Device Number. Enter Device Number (XX) on remote. One of the display's colons will flash and will be in "Focus" mode. Press <b>(NEXT)</b> several times button until TAKT Timer's colons are flashing. Press <b>(RUN/HOLD)</b> to pause. Press again to resume.
<b>Change TAKT Timer Start Value</b>	Press ● button on bottom left of remote. Device will display Device Number. Enter Device Number (XX) on remote. One of the display's colons will flash and will be in "Focus" mode. Press <b>(NEXT)</b> several times button until TAKT Timer's colons are flashing. Press <b>(ENTER)</b> and first digit will flash. Type in new starting TAKT time in MMSS format. Press <b>(ENTER)</b> to save.
<b>Change Display Brightness</b>	When any display is in Focus, press <b>(ENTER)</b> . First digit will flash. Press the <b>(UP)</b> button to increase brightness or <b>(DOWN)</b> button to decrease brightness. Each press increases/decreases by 10%. Do NOT press (Enter) to save. Press <b>(NEXT)</b> to save and change Focus to another display.

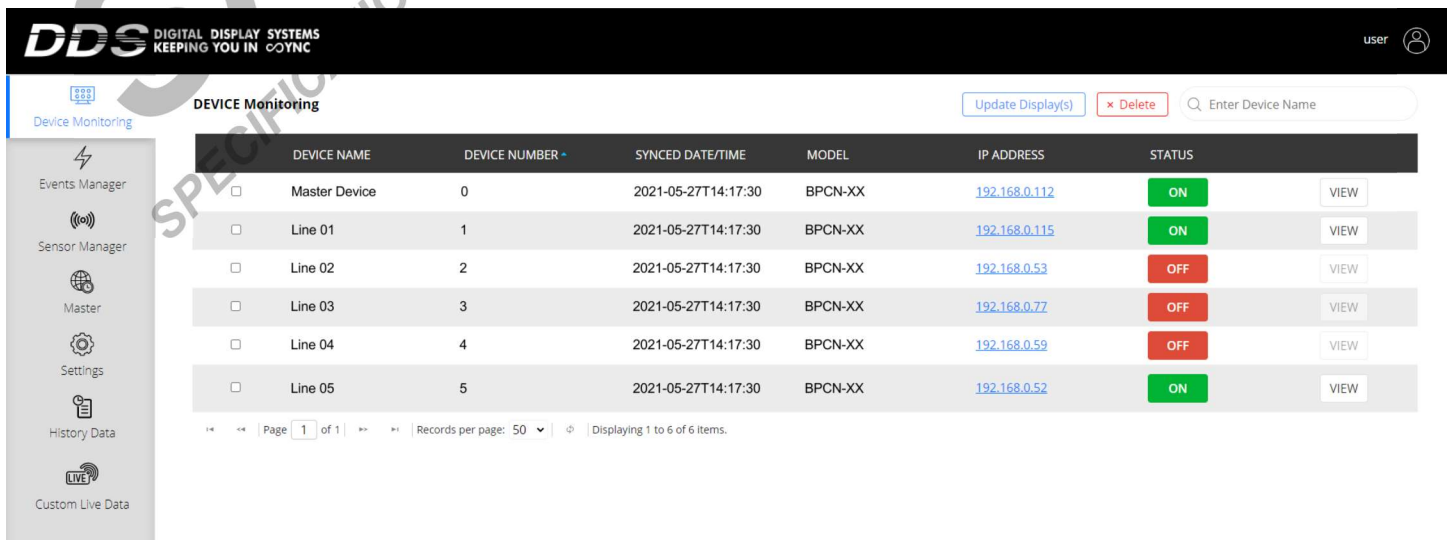
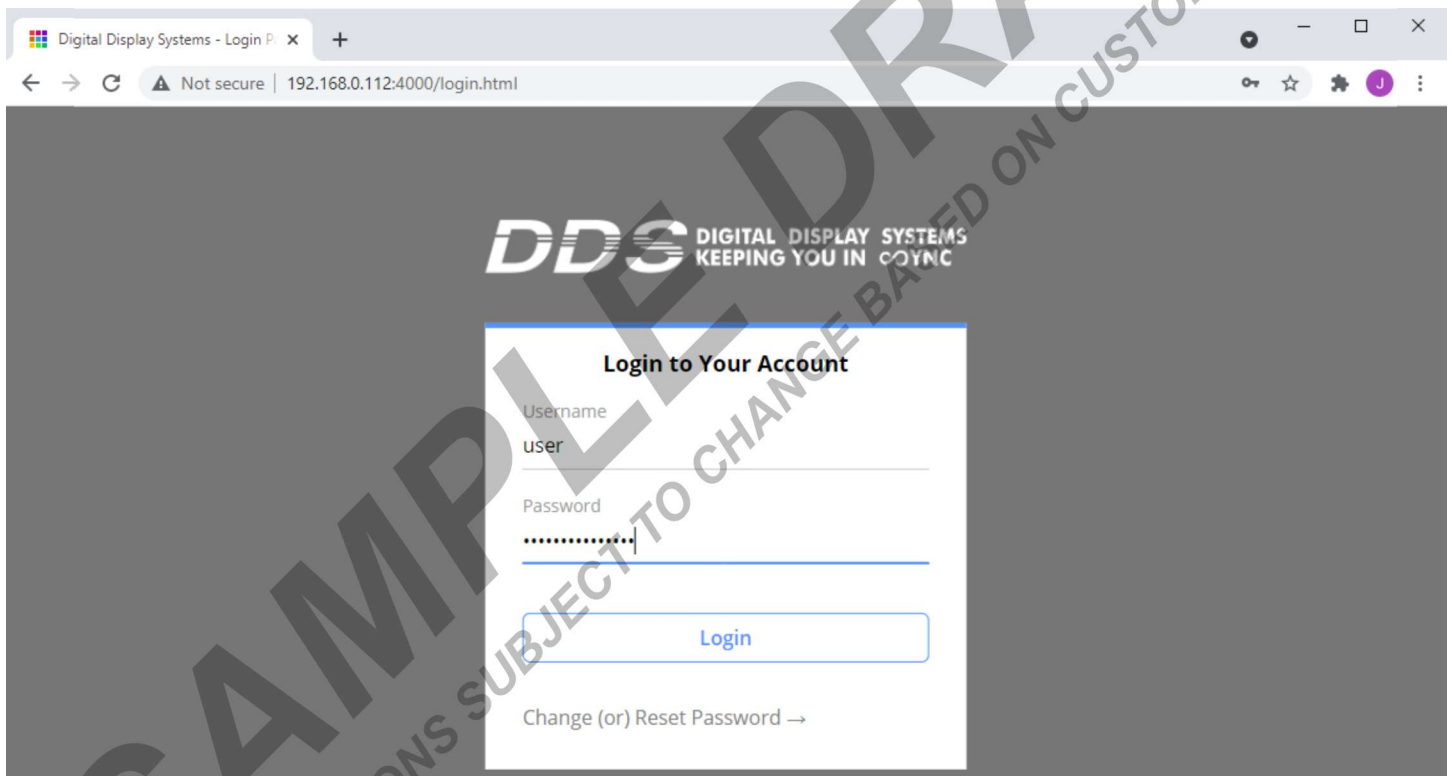
# FEATURE: View All Devices Remotely via Local Network\*

\* Requires Ethernet to Local Network connection. WIFI connection available upon request for additional cost.

Smart efficiency displays can be connected to the same network and assigned individual IP addresses via DHCP server. Access each device individually via a secure Linux-based web browser page or monitor all devices on the network on master device.

What if the master device is offline?

Don't worry, you will still be able to access the secondary devices individually and can quickly set up one of the secondary devices as a new master.



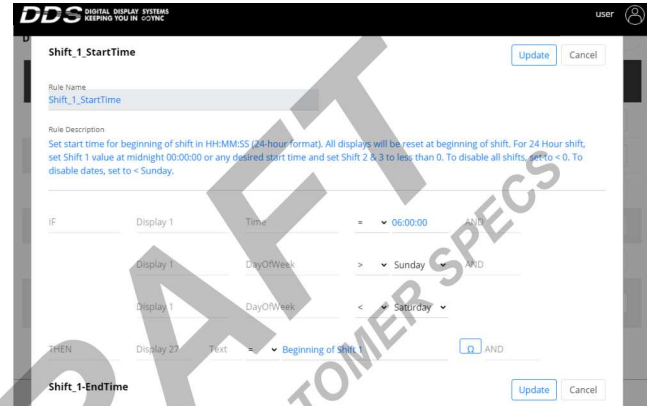
# FEATURE: Schedule Up to 3 Shifts and 100+ Events/Breaks

## Set Beginning & End of Shifts

Save a bit of time from resetting devices early in the morning and from recording data manually at the end of each shift by using rules.

When a shift begins, all metrics will be reset to 0 or their starting value.

When a shift ends, metrics (aside from the Actual count) will be frozen and a record of data will be saved for future export via .csv file. Set up email notifications to have a snapshot of the data sent directly to your inbox at the end of each shift.



## Schedule Breaks into your System

Events on the Smart Efficiency System allow you to set up scheduled breaks. During scheduled breaks, goal timer will be paused. Connect an Andon light or buzzer to remind employees on the work floor to take a break when they should.

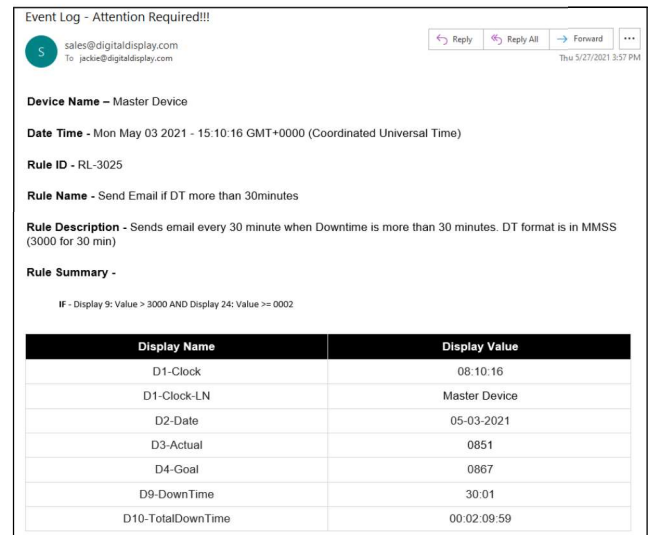
EVENT DESCRIPTION*	START TIME (HH:MM:SS)*	ALERT TYPE*	START ALERT DURATION (SEC)*	END TIME (HH:MM:SS)*	ALERT TYPE*	END ALERT DURATION (SEC)*	SWAP DISPLAY*	SETTINGS*
1st Break	10:00:00	None	0	10:15:00	None	0	None	[Settings] [X] +
Lunch	12:00:00	None	0	12:30:00	None	0	None	[Settings] [X] +
3rd Break	14:00:00	None	0	14:15:00	None	0	None	[Settings] [X] +

[Save] [Cancel]

# FEATURE: Email Notifications

Aside from End of Day emails, managers and leaders can receive instantaneous email alerts when production is down.

For example, use rules to send an email when a machine's downtime is over 30 minutes. Then, escalate the issue if the downtime is over 1 hour by sending an email directly to the supervisor.



# FEATURE: Historical Data Export

Track and download up to 6 months or 40,000 lines of historical data for each device in .CSV format.

1	DateTime	RuleID	RuleName	D1-Clock	D1-Clock-IN	D2-Date	D3-Actual	D4-Goal
2								
3	Device-Master Device							
4								
5	05-May-2021 15:36:58	RL-1054	DT_Reason_log	11:36:58 AM	Line 1	5/5/2021	126	14
6	05-May-2021 15:00:00	RL-1111	Hourly_Log	11:00:00 AM	Line 1	5/5/2021	124	300
7	05-May-2021 14:00:00	RL-1110	Hourly_Log	10:00:00 AM	Line 1	5/5/2021	122	240
8	05-May-2021 13:41:59	RL-1054	DT_Reason_log	9:41:59 AM	Line 1	5/5/2021	120	10
9	05-May-2021 13:00:00	RL-1109	Hourly_Log	9:00:00 AM	Line 1	5/5/2021	170	180
10	05-May-2021 12:02:01	RL-1054	DT_Reason_log	8:02:01 AM	Line 1	5/5/2021	121	122
11	05-May-2021 12:00:00	RL-1108	Hourly_Log	8:00:00 AM	Line 1	5/5/2021	120	120
12	05-May-2021 11:00:00	RL-1107	Hourly_Log	7:00:00 AM	Line 1	5/5/2021	60	60
13	05-May-2021 10:00:00	RL-3000	Shift_1_StartTime	6:00:00 AM	Line 1	5/5/2021	0	0

# FEATURE: Custom Live Data View

Sometimes, supervisors need to track KPIs that don't necessarily need to be shown to all employees on the floor. The Custom Live Data view allows people in charge to view all the relevant metrics that aren't on the physical scoreboard. Values and start times for timers can also be quickly set up via Live Data view.