BROADCAST ENGINEERING
System Guide

Operational Stage	Version: 1.0	Date: 28 September 2011
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Category: (from Feasibility Report)		Department: (from Feasibility Report)
Document N: (from MS Project)		
System: ATR advert indicator/timer		Customer: ATR Production
Sponsor: (from MS Project)		

Document History

Version	Date	Description	Status	Authors
1.0	28/09/2011	First draft.	Complete	A.F.
	02/12/2008			
	02/12/2008			

Overview

The unit is a black 1U situated in ATR gallery front desk Corsham Street just above the producers Trilogy talkback unit. It provides a visual indication in the form of displaying lights indicating the amount of advert breaks taken within the current hour. Its intended use is currently from 6pm till 11pm when the advert breaks are of a fixed duration of 2 minutes plus break bumpers of 10 seconds before and after the advert break

Support – responsibilities

Engineering is responsible for supporting this system

Description

When an advert break is taken, an existing push switch is operated which results in a pulse from 5v to 0v sent to the main sky Oliver units, a tap of this is taken directly to the advert unit which is sensed and used to trigger the unit resulting in lighting up the next indicating light. This continues on each press until the top of the hour when the unit resets all lights off unless an advert break is running across the hour into the next when the first light will stay illuminated to indicate an advert break has been run in the current hour.

The reset pulse on the hour is derived from feeding balanced LTC time code directly to the unit which is then read and decoded by a microprocessor to determine exactly when the next hour starts. If no time code Is present the normal green 'status' led changes to red to indicate a problem and the unit is not to be relied upon.

 A blue 'ad status' led indicates where in the sequence of the 2 minutes 20 seconds 'ad break' the unit is at. First 10 seconds the blue led is flashing indicating a 10 seconds break bumper, It then stays lit for the next 2 minutes indicating the advert break is in progress. Finally the led flashes indicating the last 10 second break bumper then extinguishes. The unit then waits for the next sky button trigger. The duration of the timer is fixed within the microprocessor and is not user configurable. It is fixed to the durations listed above.

WARNING
THE UNIT MUST BE CONNECTED TO A PERMANT SUPPLY, If not then the unit can load the sky switch into triggering the Oliver units. (Ie, A supply that does NOT get turned off at night).

PRECAUTIONARY
BEFORE DISCONECTING THE UNIT IT IS RECOMMENDED THE 2 SCREWLOCK DIN PLUGS ARE REMOVED FIRST BEFORE POWERING THE UNIT DOWN.

CONSEQUENTIALLY, POWERING UP THE UNIT SHOULD BE DONE FIRST BEFORE CONECTING THE SCREWLOCK DIN PLUGS

References

Sky ATR break control   J:\ENGDRAW\MISC - 42.dwg

Support – details

The 3 rear connections to the unit consist of:

LTC time code input (cable C3043), Plug is 4 pin screw lock DIN RS 776-252 Pin1 black, Pin 4 red
Destination Car 4 Krone frame 7D10, FST cable

Sky ad break switch input (cable C3042), Plug is 3 pin screw lock DIN RS 776-246 Pin1 black, Pin 3 red
Destination Car 3 bay 7 Krone frame block 3, FST cable black 7B, red 6A

Power is a standard 5v external switch mode power supply with a power connector RS 464-369

Spares

Stock 5v power supply as used on the Philips CP330 router panels can be used as a replacement with a power connector RS 464-369 fitted

The unit has no other user serviceable parts inside

Problem Escalation

Engineering 8616

External Suppliers

Support Contract: none

Response Time: not applicable

Customer Communication

In case of faults or incidents relating to this system, the following groups must be informed:

Internal: engineering 8616

External: none

Communication is necessary when raising incidents, informing resolution progress and closing an incident.