



Arim-407 C Clock System



- . Microprocessor controlled Master and Slaves clocks
- . Synchronisation with satellite clock over the 12 channel GPS Module locked on GPS Satellites.
- . To send time and date information in EBU-LTC format in the same package.
- . For connected clocks 4 equal EBU-LTC, 1 RS 232 output
- . Heat controlled crystal oscillator
- . Keep on working connected clocks and date indicator when information cut down from the master clock
- . Rechargeable battery that can feed master clock for 48 hours
- . Low power consumption with version of time partitioned indicator in connected clocks
- . 7 partitioned big indicator, perfect view in connected clocks
- . The design that provide measurement and maintenance convenience

ARIM Clock System:

Master clock has the GPS receiver and Hall type and/or Wall type, Studio type, Date Display slaves clocks in various dimensions connected to the Master Clocks.

Standart Time Code:

Master Clock produces time code in EBU-LTC, RS-422 format. Master clock sends time and date information in same package. Time informations are received by connected clocks. Date informations are received by date indicator.

Time signal is sent with 9600 baud rate series time signal output to the computers by a different RS-232 placed on master clocks.

Synchronisation:

It gets time and date information from the messages in NAVMAN binary data protocol over the 12 channels GPS module which is locked on satellites placed on GPS. It sends date information to the time indicator, local time information to the studio type connected clocks and wall, Hall type clocks connected itself.



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Continuous Display

Liquid Crystal Display (LCD) has been used on master clock. When main supply is cut of master clock is fed with batteries for up to 48 hours and its displays also stays active.

Slave clocks continue to work if the connection with Master Clock breaks down. When the connection is reestablished they synchronise themselves with the Master. During their stand alone work, to give a warning the points of their displays flash.

Unlimited System Expansions :

There is no restriction on the number of slaves to be connected to the Master Clock. For the operation safety star connection through ARIM 429 Clock Code Distributers is recommended.

Secondary Master :

Optionally a secondary master clock can be integrated to be system to overcome the difficulties in case of a trouble in the master. The secondary master is connected to the system via ARIM 429 veya ARIM 429.

Low Power Consumption:

The master clock display is of LCD type and is brightened at nights.

In slaves Time Division Multiplex is used for display drive.

Rechargeable Batteries:

In case of power failure the master continues to work for up to 48 hours with rechargeable batteries.

Outputs

1) EBU-LTC Time code

Output Standard: RS-422

Code Type : Bi-phase mark

Baud Rate : 2000 bit\sn

Output Connector: D type 9 pin male

2) Serial Time Signal

Output Standard: RS-232

Baud Rate: 9600 bit/sn

Output Connector: D type 9 pin male

Performance :

Frequency Stabilyty: $< \pm 1 \times 10^{-7}$

Working Temperature : 0°...+ 70°C

Power Characteristics :

Power Consumption : 5 Watt

Power Input : 220 VAC, 50 Hz

Mechanical Characteristics :

Display Type 1: 8 segment , alfanumeric LCD

Display Type 2: Satellite receivers display

	WALL TYPE SLAVE CLOCKS	HALL TYPE SLAVE CLOCK	STUDIO TYPE SLAVE CLOCK
	ARIM 461	ARIM 462	ARIM 424
Data Input	RS-422	RS-422	RS-422
Data Output	RS-422	RS-422	RS-422
Data Format	EBU-LTC Time Signal	EBU-LTC Time Signal	EBU-LTC Time Signal
Power Input	220VAC , 50Hz	220VAC , 50Hz	220VAC , 50Hz
Width	460.mm	460.mm	340.mm
Height	160.mm	160.mm	340.mm
Depth	60.mm	85.mm	70.mm
Weight	1,95.kg	2,75.kg	3,75.kg
Mounted Place	Wall	Ceiling	Wall
	Wall Type (100mm. adjustable)	Coridaor Type (100mm. adjustable)	Wall Type with Date indicator
	ARIM 463	ARIM 464	ARIM 460
Data Input	RS-422	RS-422	RS-422
Data Output	RS-422,SLA 3 connector	RS-422 ,SLA 3 connector	RS-422
Data Format	EBU-LTC Time Code, SLA 3 connector	EBU-LTC Time Code, SLA 3 connector	EBU -LTC date signal
Power Input	220VAC, 50Hz, TK18 male	220VAC, 50Hz, TK18 male	220VAC, 50Hz
Width	460.mm	460mm	460mm
Height	160.mm	160.mm	160mm
Depth	60.mm	85.mm	60mm
Weight	1,95.kg	2,75.kg	1.95 kg
Mounted Place	Wall	Ceiling	Wall
	CLOCK DISTURITOR (RACK MOUNT) ARIM 429	CLOCK DISTURITOR (RACK MOUNT) ARIM 429A	CLOCK (20mm. Display) ARIM 409
Data Input	RS-232 or RS-423	RS-422	RS-232C 4 pin MSTB connector
Data Output	RS-423 (10 Outputs)	RS-422 (8 Outputs)	RS-232C 4 pin MSTB connector
Data Format	EBU-LTC Time Code	EBU-LTC Time Code	EBU-LTC Date Signal
Power Input	220 VAC. 50 Hz	220 VAC. 50Hz	220 VAC. 50Hz
Width	483.mm	225.mm	220.mm.
Height	44.mm	45.mm	47.mm.
Depth	245.mm	205.mm	85mm
Weight	2.kg	2.kg	