

GENERAL DESCRIPTION

TECHNICAL DATA MASTERMONITOR 10690-3U 10691-3U

The RTW MasterMonitor 10690-3U/10691-3U are plug-in units in a 3U, 28HP case for mounting into 3U racks. The MasterMonitors contain four instruments:

Audio vectorscope/goniometer plus
Peakmeter plus
Correlation display plus
AES/EBU Status display

PPM-mode and colour settings are selectable via menu. The RTW MasterMonitor features x-former balanced analog inputs as well as alternative AES/EBU digital in- and outputs.



Analog
Digital

Goniometer

Correlator

Peakmeter

2-channel

Status

TECHNICAL SPECIFICATIONS

General

Supply voltage: +24 V/500 mA
Dimensions: 3U, 28 HP
Weight: 830 g
Connector: 64-pin connector DIN 41612 A/C
Fastening: 4 x M2.5 x 10 mm
Display:

- TFT active colour matrix-LCD
- viewing direction: 3 o'clock
- active display area: 75 x 102 mm
- contrast: 1:60
- viewing angle: hor. +40/-65°; ver. ±65°

 Inputs: selectable via menu

- analog: xformer-sym. > 10 kΩ
- digital: AES/EBU; x-former bal., 110 Ω/Hi-Z 32 kHz to 96 kHz

 Standby-mode: backlight cut off

- 10 min; 60 min; inactive

 Control inputs: parallel to front keys

Peakmeter

Display mode: • 2ch, 2ch + S + D
Input mode: Analog or digital
Scales:

- DIN-5, DIN-10, NORDIC, BRITISH IIa or IIb, VU, 0 to -60 dB FS, 0 to -20 dB FS, Zoom 20

 Integration time:

- corresponding to selected standard; 1 ms; 0.1 ms; sample

 Operation mode

- analog:
 - +20 dB-Gain for DIN, VU
 - +40 dB-Gain for NORDIC, BRITISH
- digital:
 - headroom -5 dB to -20 dB, in 1 dB-steps
 - overload display; wordlength and number of samples adjustable
 - operation field adjustable 0 - 15 dB below headroom
 - +40 dB-Gain
 - DC/HP-Filter 5 Hz, 10 Hz, 20 Hz, OFF

 Peakhold: display of peaks
Peakhold time: 'auto' approx. 2.5 s, 4 s and 'manual'

Correlator

Mode: spot
Attack/Release time: 1.0 s or 2.5 s

Audio vectorscope/goniometer

Display area: 70 x 70 mm
AGC: Auto:

- attack 1 ms
- release 1 s/10 dB or 2 s/10 dB

 Fix:

- Gain selectable in steps of 5 up to 35 dB

 Calibration mode:

- Dual AGC
- graduated scale 90°, 20°

AES/EBU-Status-Monitor

Status bytes: selectable channel A to B

- hexadecimal, plaintext, binary
- audio-signal-evaluation

Items delivered

MasterMonitor 10690-3U: (Standard version)

- operating manual
- counter plug
- RAL 9011/7011 (Graphite black/Iron grey)

Discontinued model Order number: 10690-3U

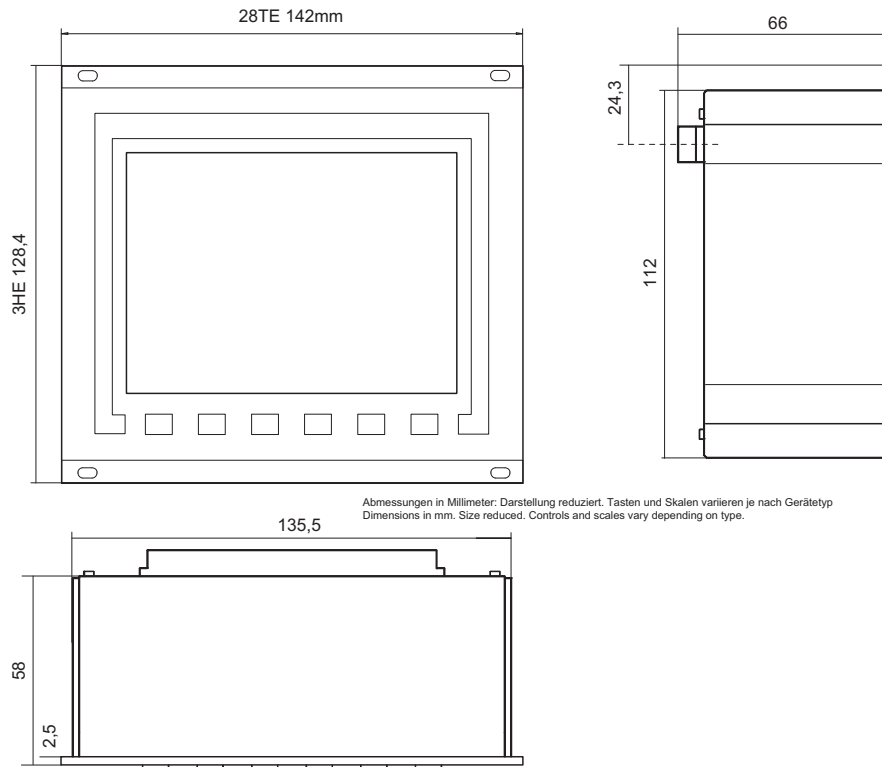
MasterMonitor 10691-3U: (for use with 3U DistriCon system rack)

- operating manual
- RAL 9011/7032 (Graphite black/Pebble grey)

No longer available Order number: 10691-3U

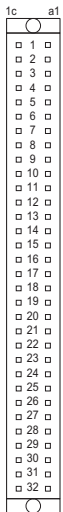
DIMENSIONS

MASTERMONITOR 10690-3U
10691-3U



CONNECTION:

The MasterMonitor is connected up using a 64-pin connector DIN 41612A/C.
The connector is wired as follows:



Pin:	Function:
1a	audio input (+ or hot, upper or left display column)
2a	case
3a	audio input (- or cold, upper or left display column)
7a	audio input (+ or hot, lower or right display column)
8a	case
9a	audio input (- or cold, lower or right display column)
11a	external function selection: gain
12a	external function selection: memory
13a	external function selection: memory Reset
14a	external function selection: status
15a	external function selection: mode
15c	common potential for external switches
16c	do not wire, for future use
17a	external function selection: menu disable
17c	do not wire, for future use
18a	external function selection: menu
18c	common potential for external switches
20a	Connection switches AES/EBU
21a	
22a	case
23a	AES/EBU in (+ or hot)
24a	AES/EBU in (- or cold)
25a	case
26a	AES/EBU out (+ or hot)
27a	AES/EBU out (- or cold)
30a/c	0 V voltage supply
31a/c	case
32a/c	+24 V voltage supply

COLOURS

10690-3U: RAL 9011/7011 Graphite black/Iron grey
10691-3U: RAL 9011/7032 Graphite black/Pebble grey

ACCESSORIES



Rack frame 19"-3 units height
mounting panel
Orderno. 164783



Rack frame 19"-3 units height
mounting panel
Orderno. 164758



Rack frame 19"-3 units height
mounting panel
Orderno. 12970



System rack 19"-3 units height
with power supply
Orderno. 1200-3UX

Subject to technical changes without prior notice 04/2004