MFR-RU Series Datasheet

1. Specifications

MFR-16RU/16RUD Basic specifications

Temperature / Humidity	0ºC to 40ºC / 30% to 85% (no condensation)
Power	+12 V DC Pin-connector x 1
Consumption	MFR-16RU: 100 V AC to 120 V AC: 7VA (3W), 220 V AC to 240 V AC: 11VA (4W) MFR-16RUD: 100 V AC to 120 V AC: 8VA (3W), 220 V AC to 240 V AC: 11VA (4W)
Dimensions	430 (W) x 44 (H) x 34 (D) mm EIA1RU 480 (W) (Including rack mount brackets)
Weight	1kg

MFR-16RU/16RUD Technical specifications

Buttons/Color	16 buttons (1 color: Green), user assignable Menu Display (Max. 16 characters x 2 lines) (MFR-16RUD only)	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)

MFR-16RU/16RUD Accessories
AC cord, AC adaptor, DC cable retaining clip, EIA rack mount brackets, Tool used to change button labels, and LAN cable (straight)

MFR-40RU Basic specifications

Temperature / Humidity	0ºC to 40ºC / 30% to 85% (no condensation)
Power	+12 VDC Pin-connector x 2 (redundant power supply as standard)
Consumption	100 V AC to 120 V AC: 10VA (5W), 220 V AC to 240 V AC: 15VA (7W)
Dimensions	430 (W) x 44 (H) x 42 (D) mm EIA1RU 480 (W) (Including rack mount brackets)
Weight	2kg

MFR-40RU Technical specifications

Buttons/Color	40 buttons (3 colors: Red/Green/Orange), user assignable	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)
	SERVICE	RS-232C 9-pin D-sub (male) x 1 (for maintenance)

MFR-40RU Accessories
AC cord, AC adaptor, EIA rack mount brackets, Tool used to change button labels, and LAN cable (straight)

MFR-16RUW Basic specifications

Temperature / Humidity	0ºC to 40ºC / 30% to 85% (no condensation)
Power	+12 V DC Pin-connector x 1
Consumption	100 V AC to 120 V AC: 8VA (3W), 220 V AC to 240 V AC: 11VA (3W)
Dimensions	480 (W) x 44(H) x 27 (D) mm EIA1RU (Including rack mount brackets)
Weight	1kg

MFR-16RUW Technical specifications

Buttons/Color	18 buttons (1 color: Green), user assignable	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)

MFR-16RUW Accessories
AC cord, AC adaptor, DC cable retaining clip, and Tool used to change button labels

MFR-32RUW Basic specifications

Temperature / Humidity	0ºC to 40ºC / 30% to 85% (no condensation)
Power	+12 V DC Pin-connector x 1
Consumption	100 V AC to 120 V AC: 10VA (4W), 220 V AC to 240 V AC: 13VA (4W)
Dimensions	480 (W) x 44 (H) x 27 (D) mm EIA1RU (Including rack mount brackets)
Weight	1kg

MFR-32RUW Technical specifications

Buttons/Color	34 buttons (1 color: Green), user assignable	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)

MFR-32RUW Accessories
AC cord, AC adaptor, DC cable retaining clip, and Tool used to change button labels

MFR-64RUW Basic specifications

Temperature / Humidity	0ºC to 40ºC / 30% to 85% (no condensation)
Power	+12 V DC Pin-connector x 1
Consumption	100 V AC to 120 V AC: 15VA (7W), 220 V AC to 240 V AC: 20VA (8W)
Dimensions	480 (W) x 88 (H) x 27 (D) mm EIA2RU (Including rack mount brackets)
Weight	1.5 kg

MFR-64RUW Technical specifications

Buttons/Color	68 buttons (1 color: Green), user assignable	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)

MFR-64RUW Accessories
AC cord, AC adaptor, DC cable retaining clip, and Tool used to change button labels

MFR-18RU Basic specifications

Temperature / Humidity	0ºC to 40ºC / 30% to 85% (no condensation)
Power	+12 VDC Pin-connector x 2 (redundant power supply as standard)
Consumption	100 V AC to 120 V AC: 12VA (6W), 220 V AC to 240 V AC: 18VA (8W)
Dimensions	430 (W) x 44 (H) x 42 (D) mm EIA1RU 480 (W) (Including rack mount brackets)
Weight	2kg

MFR-18RU Technical specifications

Buttons/Color	18 buttons (3 colors: Red/Green/Orange), user assignable LCD display x 18 (Max. 7 characters x 2 lines, 7-color, Displayed above each button) with Rotary selector	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)
	SERVICE	RS-232C 9-pin D-sub (male) x 1 (for maintenance)

MFR-18RU Accessories
AC cord, AC adaptor, DC cable retaining clip, EIA rack mount brackets, Tool used to change button labels, and LAN cable (straight)

MFR-18RUA Basic specifications

Temperature / Humidity	0°C to 40°C / 30% to 85% (no condensation)
Power	+12 VDC Pin-connector x 2 (redundant power supply as standard)
Consumption	100 V AC to 120 V AC: 14VA (6W), 220 V AC to 240 V AC: 18VA (6W)
Dimensions	430 (W) x 44 (H) x 42 (D) mm EIA1RU 480 (W) (Including rack mount brackets)
Weight	2kg

MFR-18RUA Technical specifications

Buttons/Color	18 buttons (3 colors: Red/Green/Orange), user assignable OLED display x 18 (Max. 7 characters x 2 lines, 7-color, Displayed above each button) with Rotary selector	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)
	SERVICE	RS-232C 9-pin D-sub (male) x 1 (for maintenance)

MFR-18RUA Accessories
AC cord, AC adaptor, EIA rack mount brackets, Tool used to change button labels, and LAN cable (straight)

MFR-39RU Basic specifications

Temperature / Humidity	0°C to 40°C / 30% to 85% (no condensation)
Power	+12 VDC Pin-connector x 2 (redundant power supply as standard)
Consumption	100 V AC to 120 V AC: 17VA (9W), 220 V AC to 240 V AC: 22VA (11W)
Dimensions	430 (W) x 88 (H) x 44 (D) mm EIA2RU 480 (W) (Including rack mount brackets)
Weight	3kg

MFR-39RU Technical specifications

Buttons/Color	39 buttons (LCD buttons, 7-color) Displayed in each button (Max. 7 characters x 2 lines) 10 buttons (3 colors: Red/Green/Orange), user assignable Menu display x 1 (Max. 23 characters x 2 lines) with Rotary selector	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)
	SERVICE	RS-232C 9-pin D-sub (male) x 1 (for maintenance)

MFR-39RU Accessories
AC cord, AC adaptor, DC cable retaining clip, EIA rack mount brackets, Tool used to change button labels, and LAN cable (straight)

MFR-39RUA Basic specifications

Temperature / Humidity	0ºC to 40ºC / 30% to 85% (no condensation)
Power	+12 VDC Pin-connector x 2 (redundant power supply as standard)
Consumption	100 V AC to 120 V AC: 19VA (9W), 220 V AC to 240 V AC: 24VA (9W)
Dimensions	430 (W) x 88 (H) x 42 (D) mm EIA2RU 480 (W) (Including rack mount brackets)
Weight	3kg

MFR-39RUA Technical specifications

Buttons/Color	39 buttons (OLED buttons, 7-color) Displayed in each button (Max. 7 characters x 2 lines) 6 buttons (3 colors: Red/Green/Orange), user assignable Current DEST button, current SRC button, current PAGE display x 2, Rotary selector	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)
	SERVICE	RS-232C 9-pin D-sub (male) x 1 (for maintenance)

MFR-39RUA Accessories
AC cord, AC adaptor, EIA rack mount brackets, Tool used to change button labels, and LAN cable (straight)

MFR-16RUTA Basic specifications

Temperature / Humidity	0ºC to 40ºC / 30% to 85% (no condensation)
Power	+12 V DC Pin-connector x 1
Consumption	100 V AC to 120 V AC: 12VA (5W), 220 V AC to 240 V AC: 15VA (6W)
Dimensions	215(W) x 88(H) x 43(D) mm EIA 2 RU, half-rack size
Weight	1kg

MFR-16RUTA Technical specifications

Buttons/Color	16 buttons (3 colors: Red/Green/Orange), user assignable OLED display x 16 (Max. 7 characters x 2 lines, 7-color, Displayed above each button) 2 buttons for PAGE control (lit orange) 1 button for LOCK control (lit orange) Rotary selector	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)

MFR-16RUTA Accessories
AC cord, AC adaptor, Tool used to change button labels, and LAN cable (straight)

MFR-8RUA Basic specifications

Temperature / Humidity	0ºC to 40ºC / 30% to 85% (no condensation)
Power	+12 VDC Pin-connector x 2 (redundant power supply as standard)
Consumption	100 V AC to 120 V AC: 9VA (3W), 220 V AC to 240 V AC: 11VA (3W)
Dimensions	212(W) x 44(H) x 42(D) mm EIA 1 RU, half-rack size 480 (W) (Including rack mount brackets)
Weight	1kg

MFR-8RUA Technical specifications

Buttons/Color	8 buttons (3 colors: Red/Green/Orange), user assignable OLED display x 8 (Max. 7 characters x 2 lines, 7-color, Displayed above each button) with Rotary selector	
Number of Connection	Max. 128 (including Main, MFR-RU Series, MFR-GPI and MFR-TALM units)	
Interface	MFR-LAN	10/100BASE-TX RJ-45 x 1 (For connection to MU. A network switch required for multiple unit configuration.)
	SERVICE	RS-232C 9-pin D-sub (male) x 1 (for maintenance)

MFR-8RUA Options

EIA Rack Mount Brackets	Single- or Dual-unit type

MFR-8RUA Accessories
AC cord, AC adaptor, Tool used to change button labels, and LAN cable (straight)

2. External Dimensions

MFR-16RU

(All dimensions in mm.)
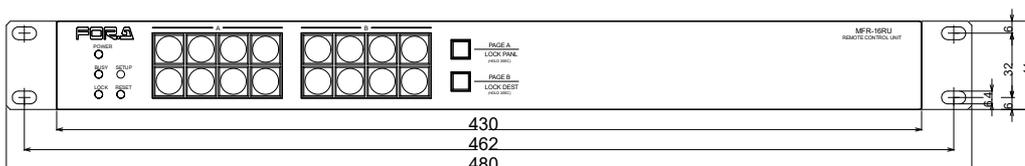
MFR-16RUD

(All dimensions in mm.)
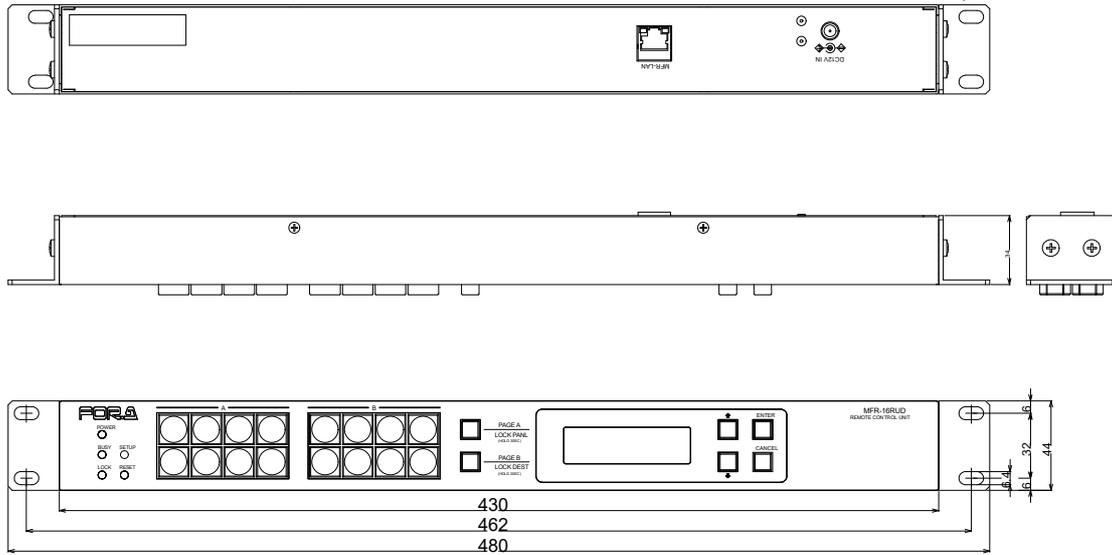
MFR-40RU

(All dimensions in mm.)
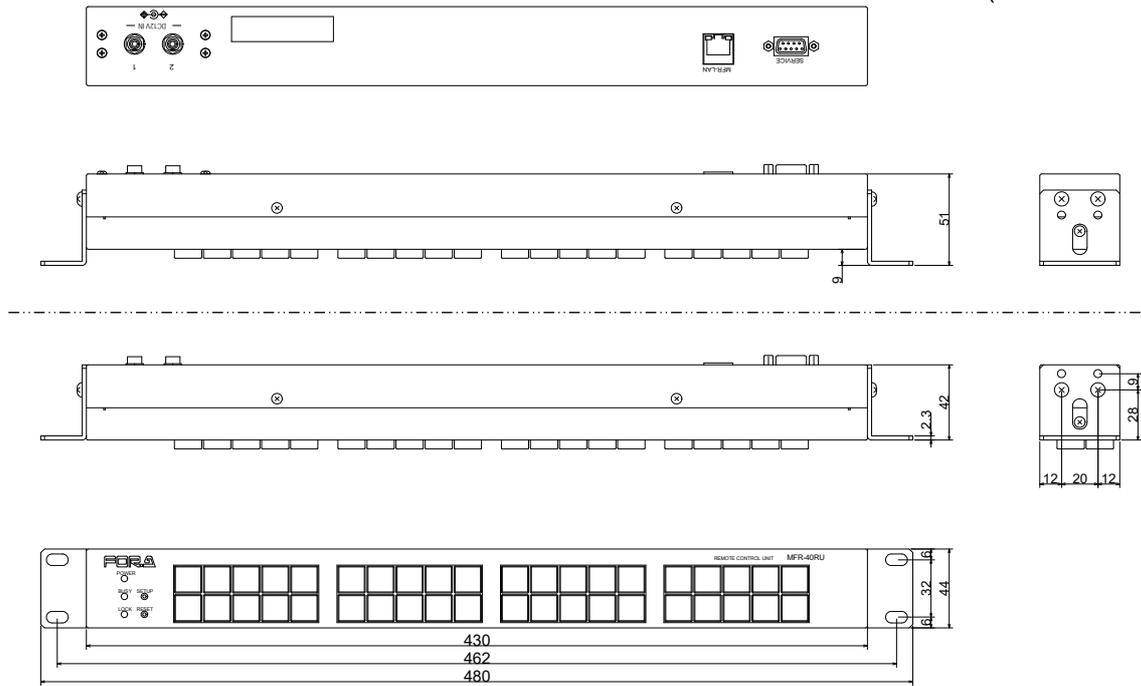
* The panel buttons can be fitted within the rack by sliding the rack ears forward to attach as shown in the bottom figure above.
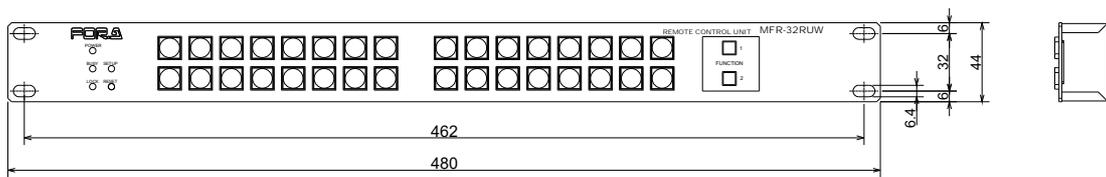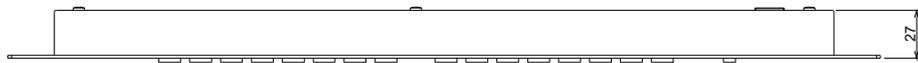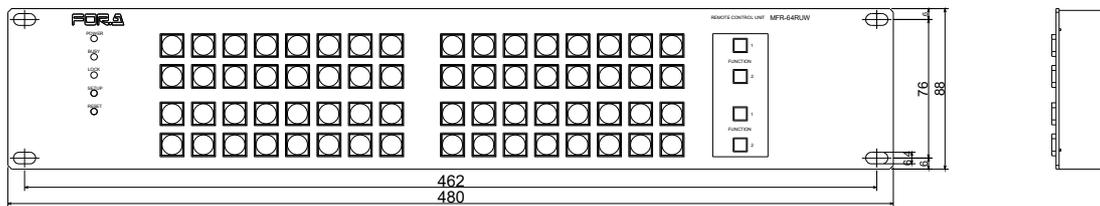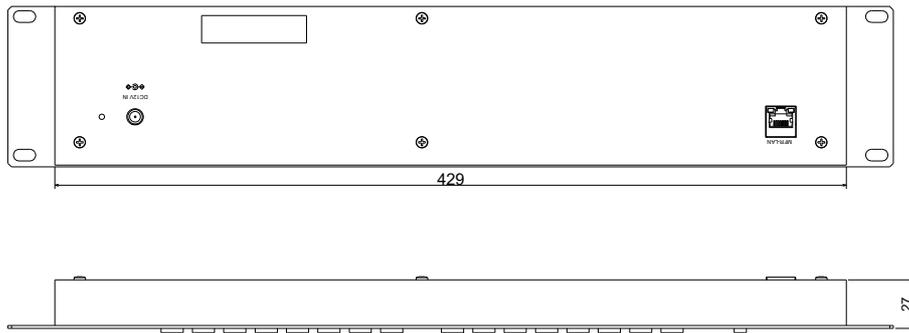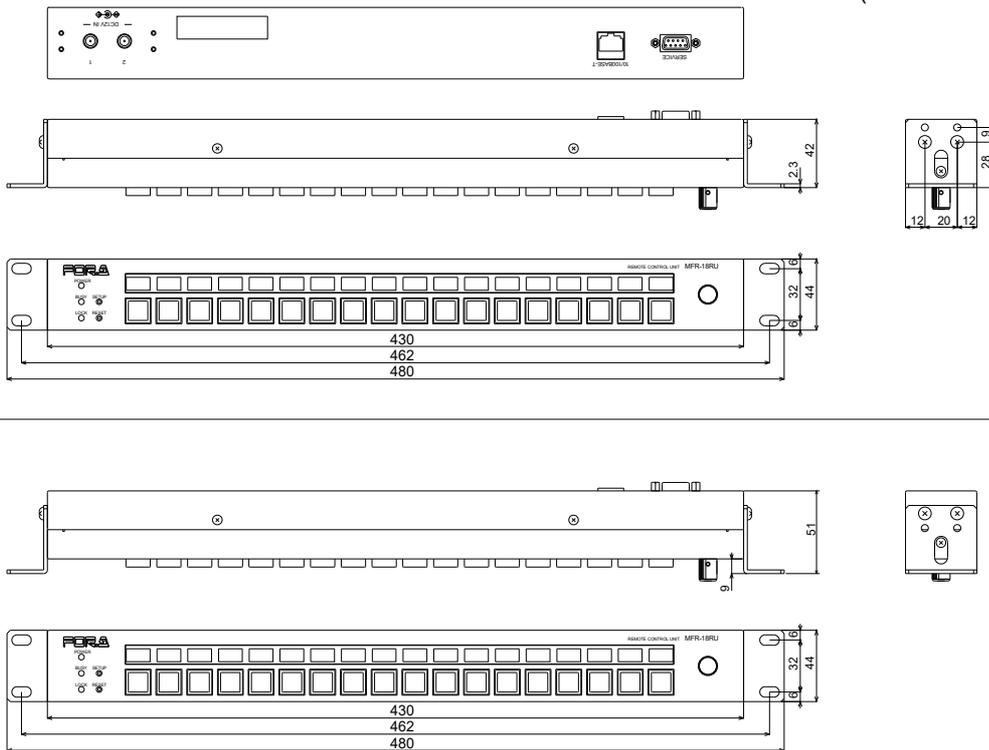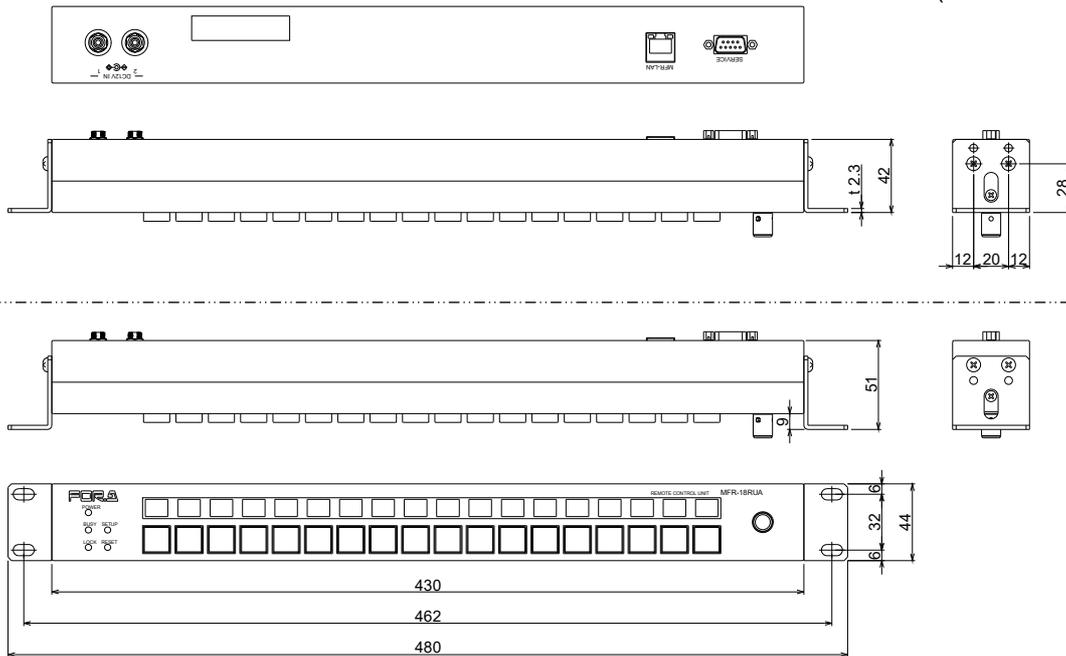
MFR-16RUW

429

27

462

480

6

32

44

6

6.4

MFR-32RUW

429

27

462

480

6

32

44

6

6.4
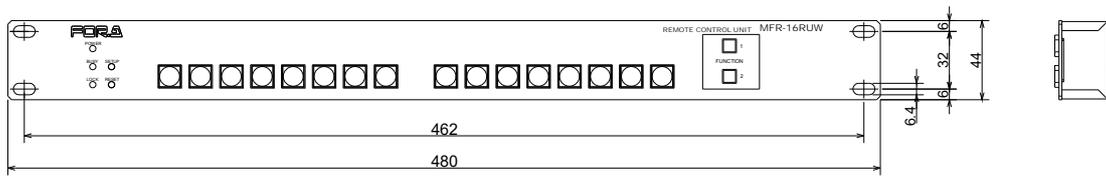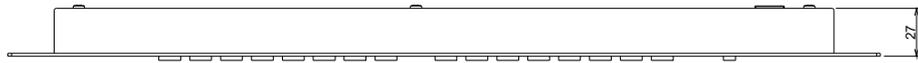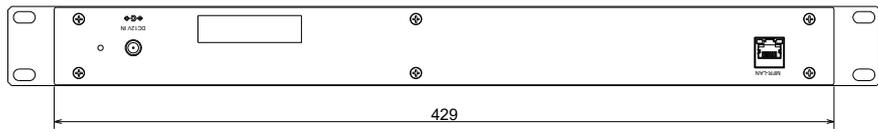
MFR-64RUW

(All dimensions in mm.)

MFR-18RU

(All dimensions in mm.)

* The panel buttons can be fitted within the rack by sliding the rack ears forward to attach as shown in the bottom figure above.
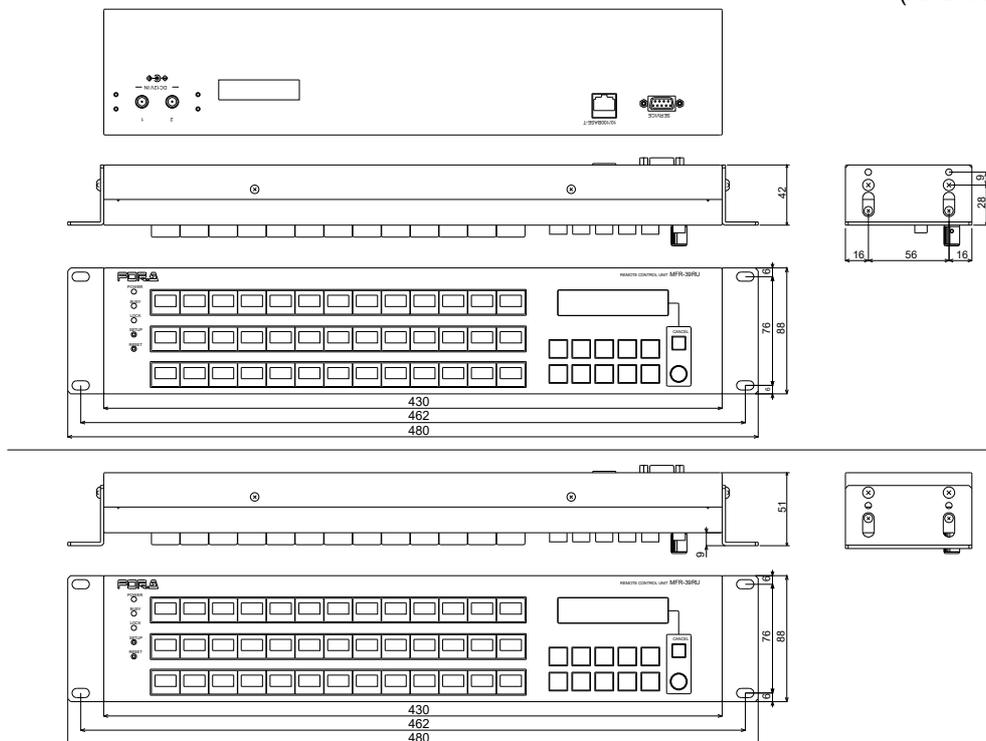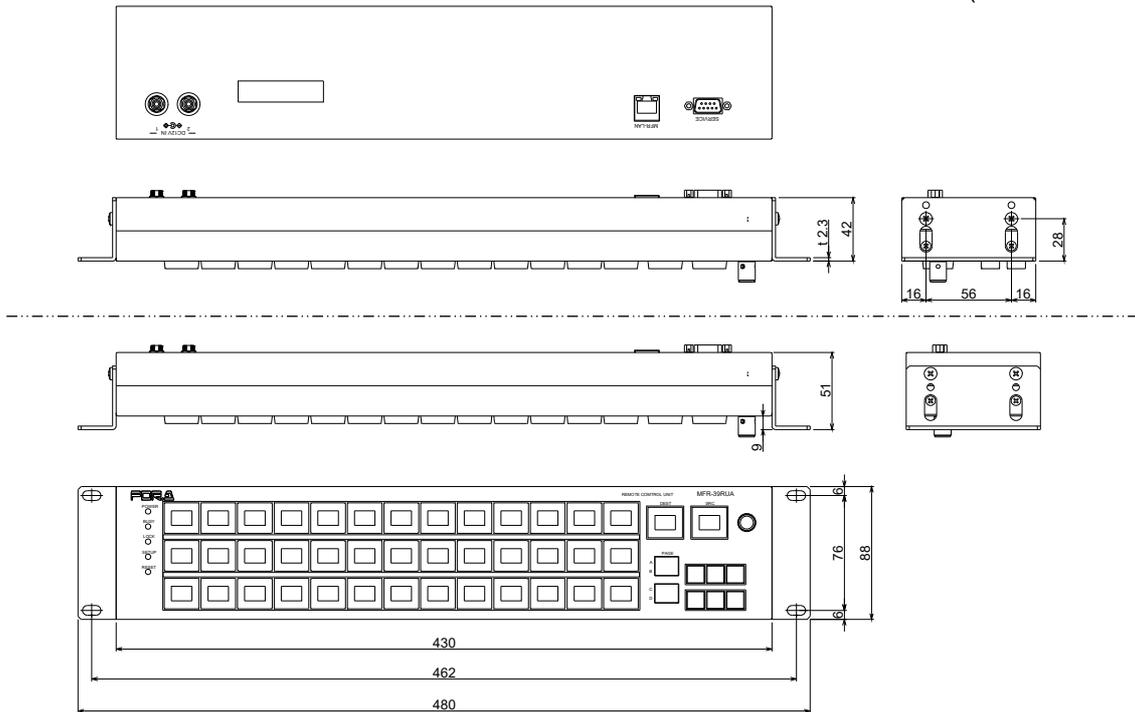
MFR-18RUA

(All dimensions in mm.)

*   The panel buttons can be fitted within the rack by sliding the rack ears forward to attach as shown in the bottom figure above.

MFR-39RU

(All dimensions in mm.)

*   The panel buttons can be fitted within the rack by sliding the rack ears forward to attach as shown in the bottom figure above.
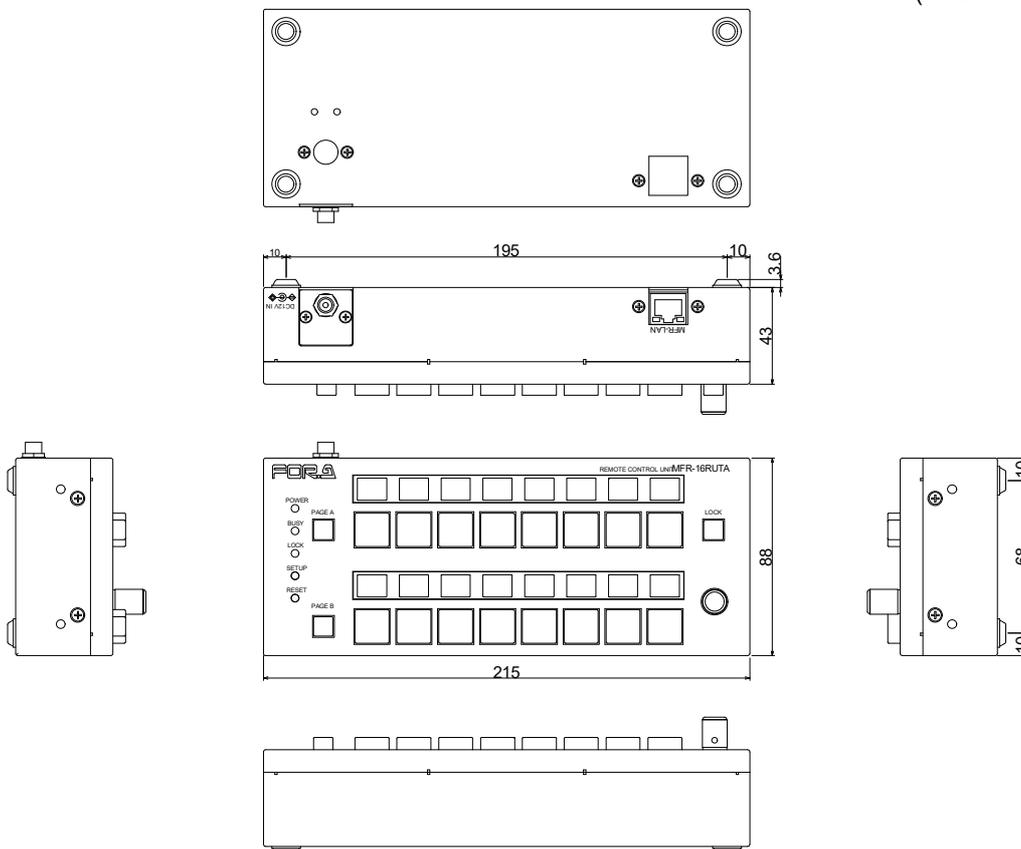
MFR-39RUA

(All dimensions in mm.)

* The panel buttons can be fitted within the rack by sliding the rack ears forward to attach as shown in the bottom figure above.

MFR-16RUTA

(All dimensions in mm.)

MFR-8RUA

(All dimensions in mm.)

FOR-A COMPANY LIMITED

Date: 2021/09/16
All specifications and contents are subject to change without prior notice.