

Remote Panel RP-3000XT for easYgen-3000XT Series Genset Controls



DESCRIPTION

Woodward's RP-3000XT is a touch screen remote control and annunciation panel for use with the easYgen-3000XT series controls. It is particularly useful with the back panel mounted easYgen-3100XT/3400XT, providing control from the front panel with greatly reduced wiring to the access door, while keeping high voltage connections located safely on the back panel.

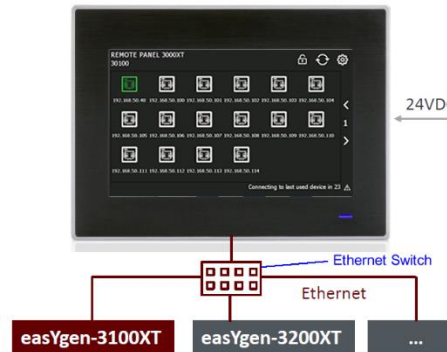
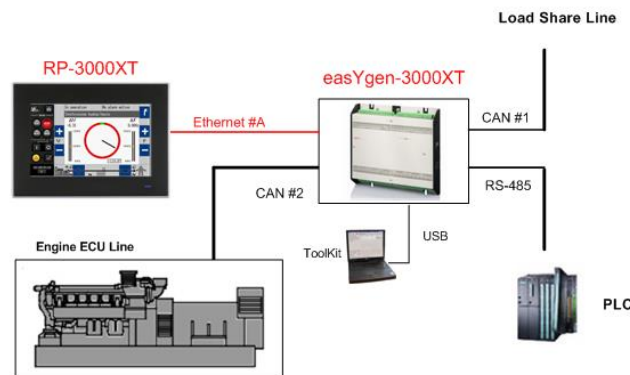
The RP-3000XT offers all the HMI resources that the display variants easYgen-3200XT/3500XT offer, but with touch screen technology. Irrespective of the easYgen-3000XT variants, this compact HMI solution connects to up to 32 XT controls (select and access one easYgen-3000XT at a time).

The RP-3000XT offers switchgear builders, genset packagers, and system integrators an off-the-shelf HMI option for any application where a secure remote control, monitoring and visualization is desired, such as hospitals, data centers, offshore rigs, landfill and wastewater gas-to-power applications to name a few.

In a paralleling application, the RP-3000XT provides the flexibility to connect each of the easYgen-3000XT controls (one RP-3000XT for one easYgen-3000XT) or to connect multiple of the easYgen-3000XT (one RP-3000XT for a fleet of easYgen-3000XTs, accessing one at a time). The communication between the two devices are always through Ethernet.

Features

- **RP-3000XT features help realize following use cases:**
 - Mounted to the front door and connected with a back panel mounted easYgen-3100XT or easYgen-3400XT for a safe and compact installation
 - Installed away from genset room and connected with a front panel mounted easYgen-3200XT or easYgen-3500XT for applications requiring multiple HMIs
 - Mounted to the front door and connected to a fleet of easYgen-3000XT series controls (up to 32) for cost sensitive and/or space constrained applications
- Power ON LED at face plate
- Multi-lingual display capability of the connected easYgen-XT (RP-3000XT menu in English)



- Plug-and-Play remote annunciation and remote control of the easYgen-3000XT Series genset controls
- Generic remote panel, connects to all easYgen-3000XT series controls
- Multi-Cast function, offers connection to a fleet of easYgen-3000XT controls (one at a time)
- Offers on-the-fly configuration with same security levels as easYgen-3000XT
- Simplifies wiring to the access door and keeps high voltage connections remote
- Small footprint makes compact installations
- Touch screen and Color display
- Ethernet communication to genset control
- Multi-lingual Capability
- CE Marked
- UL/cUL Listing

SPECIFICATIONS

Power supply		24 Vdc ±10%
Intrinsic consumption	.....	typical 7 W
Ambient temperature (operation)	.....	-20 to 60 °C (-4 to 140 °F)
Ambient temperature (storage)	.....	-30 to 70 °C (-22 to 158 °F)
Ambient humidity	.....	10 to 90% RH@40 °C, non-condensing
Housing	Front panel mounting	PC plus ABS (with die-cast aluminum alloy front bezel)
Dimensions	WxHxD	03.4 × 150 × 43.7 mm
Front cutout	WxH	192 × 138.5 mm
Front	.....	insulating surface
Weight	.....	approx. 1 kg
Sealing	Front	IP66 (with clamp fastening)
Connection (power supply)	.....	screw/plug terminals 2.5 mm ²
Interface (others not to be used)	.....	Ethernet

System Hardware		
CPU	.....	RISC processor with 32 bits 600 MHz (ARM® Cortex™-AB)
Backup Memory	.....	FRAM 128 KB
Memory	.....	DDR2 256 MB on board
Storage	.....	512 MB on board, SLC type
Power-On LED bar	.....	blue
Software		
Operating System	.....	Microsoft® Windows CE 6.0
Woodward Application	.....	Remote Panel RP-3000XT software

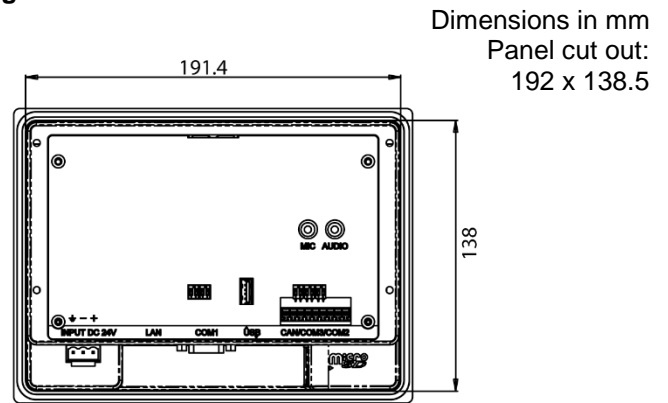
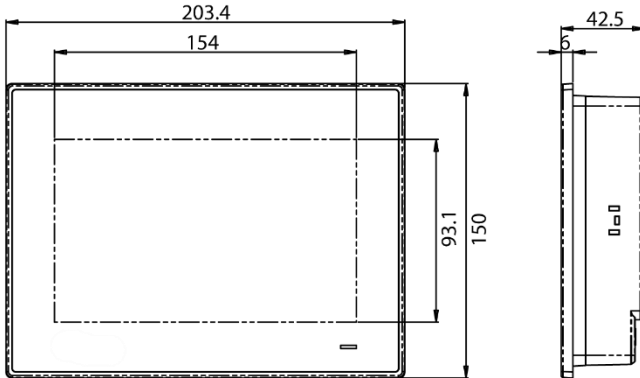
....Auto-start software to connect to an easYgen-3000XT
..... for remote control via Ethernet

Display		
Type	.....	WVGA TFT LCD
Size	.....	177.8 mm (7")
Max. Resolution	.....	800 x 480
Max. Colors	.....	64k
Luminance (cd/m ²)	.....	500
Viewing Angle (H/V)	.....	140/120
Backlight Life	.....	LED; 50,000 h
Brightness adjustable	.....	yes
Contrast Ratio	.....	700:1

Touch Screen		
Life span	.....	36 million touches at 8 mm diameter finger point through silicone rubber bearing at least 250 g two times per second
Light	.....	Transmission Above 80%
Resolution	.....	Linearity
Beep	.....	ON/OFF by software
Type	.....	5-wire, analog resistive
Vibration protection	.....	Operating, random vibration 1 Grms (5 to 500 Hz)
Disturbance test (CE)	.....	tested according to applicable EN guidelines
Listings	.....	Industrial Control Equipment UL 508 certification CE, BSML, CCC, UL, FCC Class A

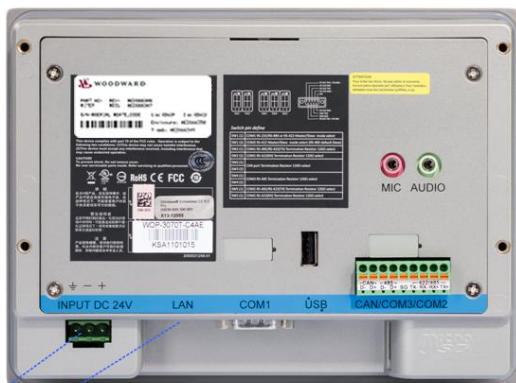
DIMENSIONS

Plastic housing with metal frame for front panel mounting



Dimensions in mm
Panel cut out:
192 x 138.5

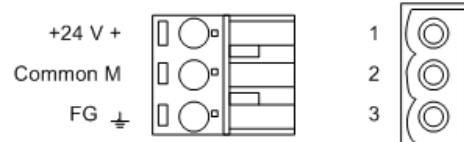
TERMINAL DIAGRAM



- 1 Power supply
- 2 Ethernet Interface

Other interfaces not used for this application!

Power supply terminal (1):
Low voltage / Limited Energy power source



1
2

REMOTE CONTROL AND CONNECTION

The easYgen-XT to be remotely controlled must be in the same Ethernet network as the Remote Panel RP-3000XT. After auto-start procedure, the MULTICAST screen presents all easYgen-XT in the current network by icon and IP address: see figure 1. Manual selection by touching the icon or with auto-setup countdown the BASE screen will open and enable remote access to the preferred easYgen-XT: see figure 3.

Otherwise, if the preferred easYgen-XT is not found, the SETTINGS screen gives access to adjust network setting, and additionally auto-connect type and brightness level: see figure 2.

The MULTICAST screen presents the network view for device selection (1) of up to 32 easYgen-XT:

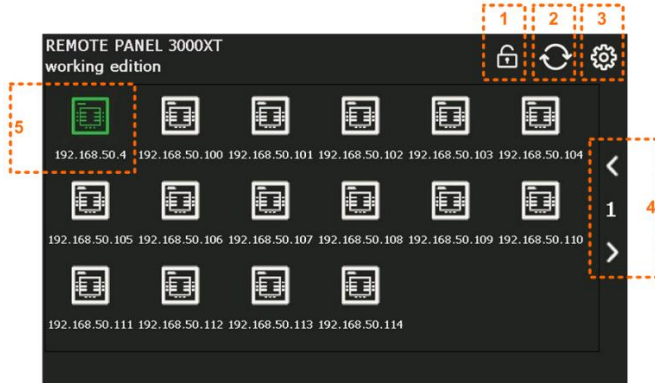


Figure 1: **MULTICAST** screen with

- 1) Lock touch screen for cleaning
- 2) Refresh network overview
- 3) Open SETTINGS screen
- 4) Go to next page (if more than 16 easYgen-XT)
- 5) Icon and IP address of the easYgen-XT remote control candidate (green = latest connected)

The SETTINGS screen allows network (4), auto-connect (1 and 2), and brightness adjustment (3):

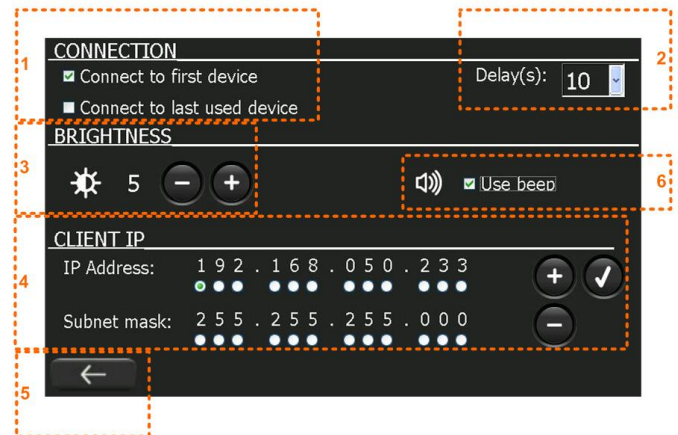


Figure 2: **SETTINGS** screen with

- 1) Three auto-connect pre-sets
first / latest / no auto-connect (nothing checked)
- 2) Delay time before auto-connecting
- 3) Brightness adjustment between 0 and 10
- 4) CLIENT IP settings to adjust the IP address of the RP-3000XT and the Ethernet network settings
- 5) Back to MULTICAST screen
- 6) Beep by touching screen

... and finally the **BASE** screen mirrors the easYgen-XT HMI and front panel buttons:

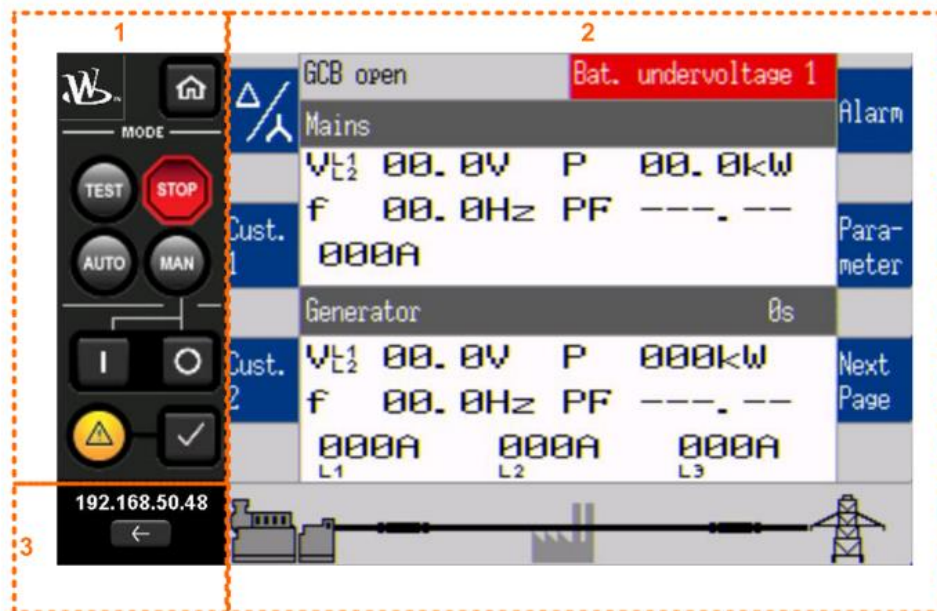


Figure 3: **BASE** screen with

- 1) Simulated easYgen-XT front panel buttons
- 2) Mirrored easYgen-XT HMI screen
- 3) IP address of connected easYgen-XT and back arrow to MULTICAST screen

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FEATURES OVERVIEW

EASYGEN RP-3000^{XT} <small>Remote Panel</small>		Model	RP-3000XT
HMI			
Analog Resistive Touch Screen			Yes
Color display			✓
Power ON LED bar			✓
HMI customizable			Please consult your Woodward representative
I/Os			
Ethernet			1
Remote Terminal Control			
Based on VNC			✓
Listings/Approvals			
UL / cUL Listing			✓
FCC			Class A
CE Marked			✓
Hardware			P/N:
Plastic housing with Die-cast aluminum alloy front bezel and display (front panel mounting)			8446-1061
Mounting KIT (clamp set for panel mount)			8923-2292

Related Products

- Genset control **easYgen-3100XT/3200XT-P1** Product Specification (# 37582)
- Genset control **easYgen-3400XT/3500XT-P1/P2** Product Specification (# 37583)

Product Documentation

- Remote panel **RP-3000XT** Technical Manual (# 37593)
- Genset control **easYgen-3100XT/3200XT-P1** Technical Manual (# 37574)
- Genset control **easYgen-3400XT/3500XT-P1** Technical Manual (# 37580)
- Genset control **easYgen-3400XT/3500XT-P2** Technical Manual (# 37581)