

Wiring deltas of easYgen-3100/3200 versus 3100XT/3200XT controls

Why switching to easYgen-3200XT?



easYgen-3200-P1/P2
 4 different part numbers

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easYgen-3100-P1/P2-3200/P1-P2

many different part numbers like

8440-1804, -1831, -1923, -2050, 2052 and more

<https://easygen.us/legacy-product-replacement/>

easYgen-3100XT-P1/3200XT-P1

part number P/N 8440-2082

**easYgen-3100XT/3200XT replace as well
old 3100/3200-P2 Packages**

Mechanical dimensions of front panel mounted easYgen-3200XT are same like easYgen-3200.

Mounting space for easYgen-3100XT is same and new control is not as high as old easYgen-3100.

New easYgen-3000XT controls provide same easYgen-3000 Modbus and CANopen Protocols, so that there is no need to touch upper PLC or PMS Systems.

It is as well possible to mix old and new controls within application. Load share Protocols are as well same. <https://support.easygen.org/en/kb/articles/can-i-loadshare-different-easygen-2000-3000-xt-controls>

Check out as well our FAQ Database answering a lot of your daily easYgen-3000XT related questions

<https://support.easygen.org/en/kb>

All easYgen-3000XT product specs, manuals, configuration files, drawings, STP 3D Models, XLS Modbus protocol and more you can get here <https://wss.woodward.com/manuals/PGC/Forms/AllItems.aspx>

AC Voltage Sensing inputs:

MAINS VOLTAGE							
L1		L2		L3		N	
120 Vac	480 Vac	120 Vac	480 Vac	120 Vac	480 Vac	120 Vac	480 Vac
21	22	23	24	25	26	27	28

Mains Voltage AC 120 V 480 V ph-ph							
NC	L1	NC	L2	NC	L3	NC	N
21	22	23	24	25	26	27	28

BUSBAR VOLTAGE			
L1		L2 N	
120 Vac	480 Vac	120 Vac	480 Vac
37	38	39	40

Busbar Voltage AC 120 V 480 V ph-ph			
NC	L1	NC	L2 N
37	38	39	40

GENERATOR VOLTAGE							
L1		L2		L3		N	
120 Vac	480 Vac	120 Vac	480 Vac	120 Vac	480 Vac	120 Vac	480 Vac
29	30	31	32	33	34	35	36

Generator Voltage AC 120 V 480 V ph-ph							
NC	L1	NC	L2	NC	L3	NC	N
29	30	31	32	33	34	35	36

In old easYgen-3000 there are separate terminals for 120VAC and for 480VAC voltage sensing.

In easYgen-3000XT there is only a wide range voltage sensing input covering 120-480 VAC

AC current sensing:

MAINS CURRENT (OR GROUND C.)		GENERATOR CURRENT					
L1		L1		L2		L3	
s2	s1•	s2	s1•	s2	s1•	s2	s1•
01	02	03	04	05	06	07	08

Mains Gnd Current AC 1 A 5 A		Generator Current AC 1 A 5 A					
L1		L1		L2		L3	
s2	s1•	s2	s1•	s2	s1•	s2	s1•
1	2	3	4	5	6	7	8

Old easYgen-3000 line had part numbers for ../1A or ../5A.

easYgen-3000XT can be used for ../1A or ../5A current sensing

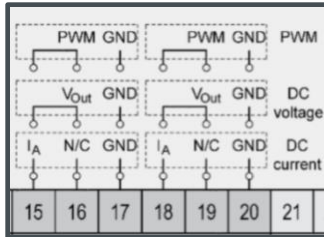
Analog Inputs:

ANALOG INPUTS 0 to 500 Ohm 0/4 to 20 mA					
AI 01		AI 02		AI 03	
-	+	-	+	-	+
09	10	11	12	13	14

Analog Inputs 0 to 2 kOhm 0/4 to 20 mA 0 to 1 V						
AI 01		AI 02		AI 03		Engine Ground
-	+	-	+	-	+	
9	10	11	12	13	14	15

In old easYgen-3000 resistive senders up to 500Ohm and 0/4-20mA were supported. In 3000XT resistive inputs were increased to 2000Ohm and 0-1VDC senders are possible as well.

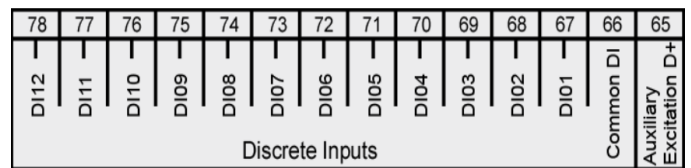
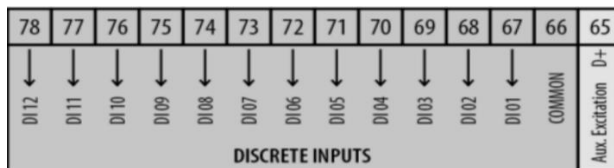
Analog Outputs:



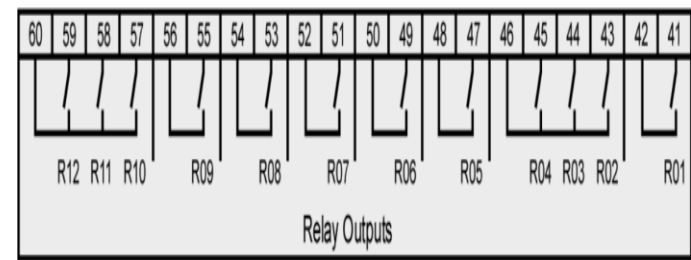
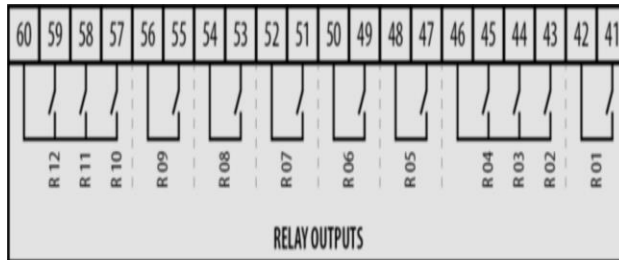
Analog Outputs				
±10 Vdc ±20 mA PWM				
Speed		Voltage		
AO 01		AO 02		
+	-	NC	+	-
16	17	18	19	20

In old easYgen-3000 controls a short link was required to convert current signal into voltage signal. In 3000XT this is done internal so easYgen-3000's terminal 15 is used in 3000XT for engine ground

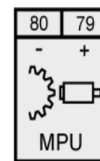
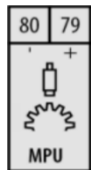
Digital Inputs:



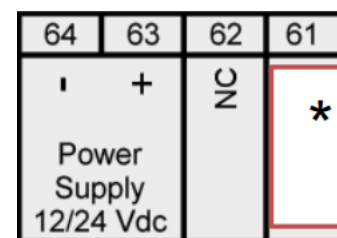
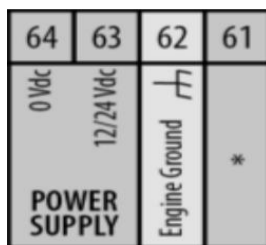
Digital Outputs:



MPU Magnetic Pickup:



Power Supply:

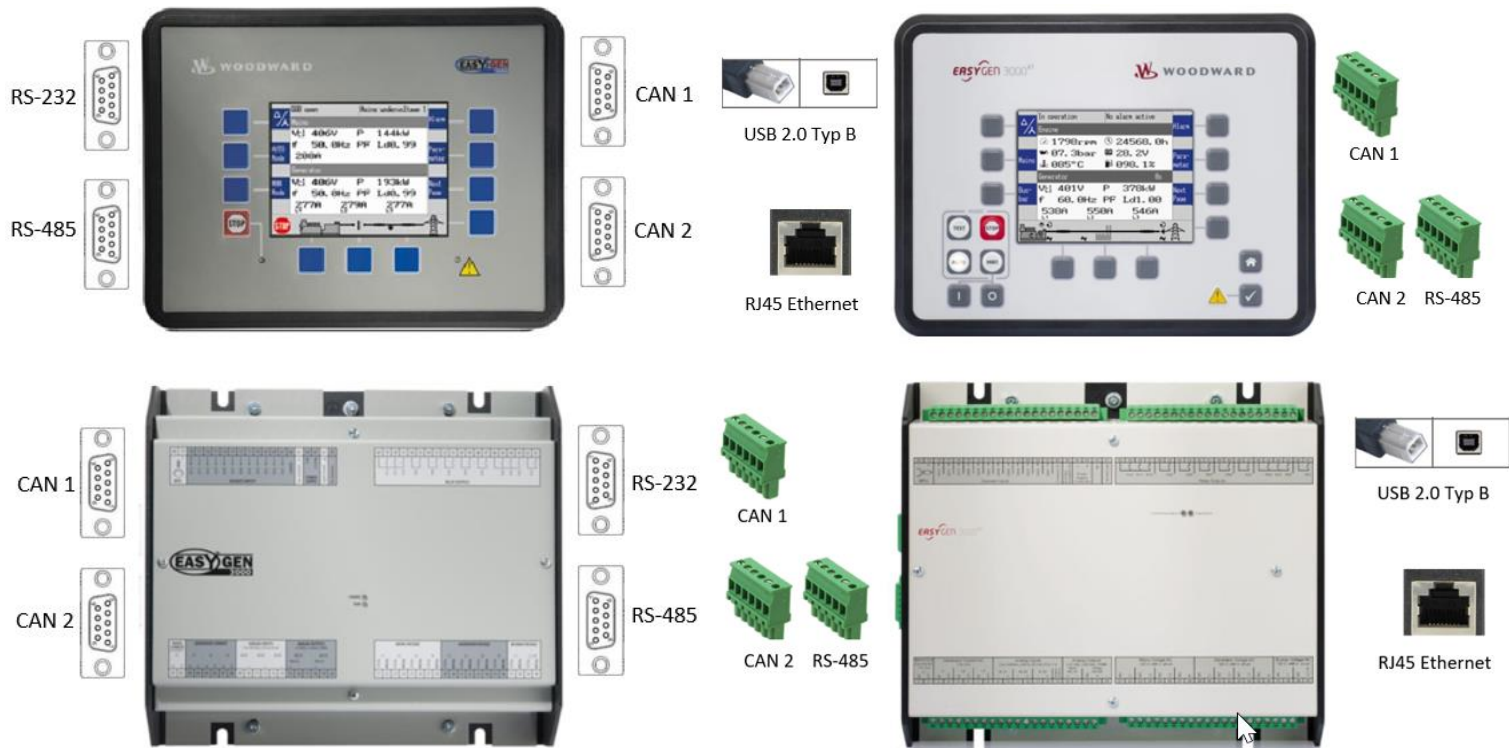


* pin 61
 easYgen-3100: No connection
 easYgen-3200: Protective earth

* pin 61
 easYgen-3100XT-P1: No connection
 easYgen-3200XT-P1: Protective earth

Communication Interfaces:

Old easYgen-3000 had D-sub sockets. RS232 port is used for Toolkit configuration. In easYgen-3000XT RS232 port was replaced by a USB 2.0 service port socket. In easYgen-3000XT D-sub sockets are replaced by terminals.



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standardization and consolidation of functions creates added value



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Availability & Reliability

when the costs of failure is too high – avoid potential single points of failure