

**SUBJECT: Product rationalization of old H8 µP based power generation controls**

This announcement is used to inform Woodward Customers, Channel Partners, Sales/ Marketing and Operations of the product rationalization and support plan for the PG – Power Generation product lines that used old H8 micro-processor.

This rationalization affects the following product lines

1. Genset Controllers: AMG-2, GCP-31/32
2. Multi Function Relays: MFR-11/12/13/15, MFR-2/3, MPU-2, LS-4, Syncon Panel
3. Synchronizer: SPM-D11
4. Communication Units: GW4
5. Transducers: UMT1
6. Protection Relay: ESDR4

These are important product lines to Woodward. However due to acute obsolescence of important components, Woodward is forced to cease production of these devices in the near future. Woodward has produced and supported these product lines for several years and will continue to offer new sales in the short run, and support for them in the medium run. Please refer to the below support schedule.

**Woodward offers the following “Last Time Buy” scenario:**

- Orders for the Last Time Buy (LTB) can be placed until **23<sup>rd</sup> January 2015**. Woodward will accept orders until this date.
- Woodward will ship items ordered on or before the LTB date **until 22<sup>nd</sup> April 2015**. After this date Woodward will stop the production of discontinued items that are listed on next pages.
- Due to tremendous increase in production cost for maintaining availability of discontinued items, Woodward will conduct price increase in two steps.
  - o 25% on 1<sup>st</sup> Dec 2014
  - o Another 50% on 24<sup>th</sup> Jan 2015

Please contact your Account Manager for pricing and support on the replacement item(s).

**After LTB, Woodward will commit to the following support plan:**

**24<sup>th</sup> Jan 2015 – 23<sup>rd</sup> Dec 2016**

- Repairs
- Limited spares based upon the available inventory

**24<sup>th</sup> Dec 2016 – 23<sup>rd</sup> Nov 2018**

- Limited repairs based on components availability

Further parts obsolescence from electronic manufacturers can present a challenge to post-life support plans. Woodward strives to hold inventory, or look for alternative parts when components are obsolete. However, there are times when components can simply not be obtained and where sufficient last-time buys cannot be made. In these cases, Woodward cannot always guarantee that we can maintain the rationalization support plan.

**Replacement Tools**

Sl. No.	Document Number	Document Description	Remarks
1.	37556	What is new?	For GCP-30/AMG-2/MFR-2/3 customers using easYgen-3000 series controller
2.	37554	Terminal Allocation Plan	GCP-30/MFR 2/3 >>> easYgen-3000
3.	37555	Part Number Mapping	GCP-30/MFR 2/3 >>> easYgen-3000
4.	-	Retrofit Adapter	For AMG-2, GCP-30; Currently under development
5.	37528	Technical Manual: easYgen-3400/3500 P1/P2	For easYgen-3400/3500 P1 and P2 genset controls
6.	37532	Technical Manual: easYgen-3100/3200 P1/P2	For easYgen-3100/3200 P1 and P2 genset controllers
7.	37535	Technical Manual: easYgen-2000 Series	For easYgen-2200/2300/2500 genset controllers
8.	37538	Technical Manual: MFR 300 Series	For MFR 300 multifunction relays
9.	37527	Technical Manual: LS-511/521	For circuit breaker control LS-5
10.	37541	Technical Manual: easYprotec-1000 Series	For multifunction relay easYprotec-1000
11.	37537	Technical Manual: easYgen-2500 Rental	For rental version of easYgen-2500

12.	37536	Technical Manual: easYgen-3500 Rental	For rental version of easYgen-3500
13.	37561	Technical Manual: Remanence Voltage Converter	Describing "Electronic Pickup Unit" for asynchronous generators
14.	37442	Technical Manual: Load Share Gateway	For LSG that works with easYgen, MFR2/3, GCP20/30, and EGCP-2
15.	37540	Technical Manual: LS-521	For LS-521 option K12
16.	DE37549	Technical Manual: easYgen-3500-P2	For easYgen-3500-P2 option K36
17.	DSESEPRO-1302	Data Sheet: ESEPRO	Profibus/CAN gateway product datasheet from ProconX
18.	DOK-HB-MCDGV4E	Technical Manual: MCDGV4	For MCDGV4 Generator Differential Protection
19.	DOK-HB-MRA4E	Technical Manual: MRA4	For MRA4 Directional Feeder Protection
20.	DOK-HB-MRDT4E	Technical Manual: MRDT4	For MRDT4 Transformer Differential Protection
21.	DOK-HB-MRI4E	Technical Manual: MRI4	For MRI4 Feeder Protection
22.	DOK-HB-MRU4E	Technical Manual: MRU4	For MRU4 Voltage Protection
23.	DOK-TD-MRI3E	Technical Manual: MRI3	For MRI3 - Digital multifunctional relay for over-current protection
24.	DOK-TD-MRI1INE	Technical Manual: MRI1	For MRI1-IN - Sensitive directional time over-current relay
25.	DOK-TD-MRN3E	Technical Manual: MRN3	For MRN3 - Mains decoupling relay
26.	DOK-TD-XUF2-E	Technical Manual: XUF2	For XUF2 - AC voltage and frequency relay

Above documents are available on Woodward web ([www.woodward.com](http://www.woodward.com)). Please remember to download the latest document.

**Discontinued Items:**

**Genset Controllers: AMG-2, GCP-31/32**

Item Number	Item Description	Comments
5418-1726	AMG2S45B/N2PB-A2QSC04SFT7VSW01	Software item
5418-1915	GCP-3245B/A2K10QSFT701ZE H8/53	Software item
5418-2781	GCP-3245B/XPQ+K23 H8/536 CPU1/	Software item
8440-1273	AMG2S45B/N1PB-FGW01IN20QSFT4YM	Similar item 8440-2030: EASYGEN-3500-5/P1-K32
8440-1514	GCP-3145B/A2K10QSFT701ZE	Similar item 8440-2030: EASYGEN-3500-5/P1-K32 or 8440-2105 or 8440-2106

8440-1516	AMG2S45B/A2EEA1	No direct easYgen replacement due to ring operation
8440-1556	GCP-3111B/XPQ	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1558	GCP-3115B/XPQ	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1559	GCP-3145B/XPQ	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1560	GCP-3115B/XPQ+SC10	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1561	GCP-3145B/XPQ+SC10	Similar item 8440-1936: EASYGEN-3500-5/P
8440-1562	GCP-3115B/XPQ+SB03	No direct easYgen replacement due to CAT CCM support
8440-1563	GCP-3145B/XPQ+SB03	No direct easYgen replacement due to CAT CCM support
8440-1572	GCP-3211B/XPQ	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1573	GCP-3241B/XPQ	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1574	GCP-3215B/XPQ	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1575	GCP-3245B/XPQ	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1576	GCP-3215B/XPQ+SC10	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1577	GCP-3245B/XPQ+SC10	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1578	GCP-3215B/XPQ+SB03	No direct easYgen replacement due to CAT CCM support
8440-1579	GCP-3245B/XPQ+SB03	No direct easYgen replacement due to CAT CCM support
8440-1609	GCP-3115B/BPQ	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1610	GCP-3145B/BPQ	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1612	GCP-3241B/BPQ	Similar item 8440-1937: EASYGEN-3500-1/P2

8440-1614	GCP-3245B/BPQ	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1664	GCP-3241B/XPQ+SC10	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1678	AMG2S45B/N1PB+D08QSC10SFT710ZS	No direct easYgen replacement due to ring operation
8440-1683	GCP-3241B/XPQ+SC10	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1688	GCP-3211B/XPQ+SC10	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1716	GCP-3141B/XPQ+SC10	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1764	GCP-3145B/RPQ+SC09	Similar item 8440-2030: EASYGEN-3500-5/P1-K32
8440-1806	GCP-3111B/XPQ+SC10	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1832	GCP-3145B/XPQ+D10D11SC10	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1854	AMG2S45B/N2PB+A2K01M03QSFT717Z	Similar item 8440-2093: EASYGEN-3500-5/P2-K36 + EPU-100 (8445-1045)
LR20711	AMG2S45B/A2EVC1	No direct easYgen replacement due to ring operation
LR21086	AMG2S45B/N2PB-SEC400	No direct easYgen replacement due to SEC connection

**Multi Function Relays: MFR-11/12/13/15, MFR-2/3, MPU-2, LS-4, Syncon Panel**

Item Number	Item Description	Comments
5448-883	MFR1205B/CP	Similar item MRI1 or MRI3
5448-884	MFR1110B/MP	Similar item 8441-1160: easYprotec-1410-1 or 8441-1161: easYprotec-1410-7
5448-885	MFR1110B/G59	Similar item 8441-1160: easYprotec-1410-1 or 8441-1161: easYprotec-1410-7

5448-886	MFR1315B/GP	Similar item MRG3
5448-898	MFR1315B/GPX	Similar item MCDGV4
8440-1006	LS445B	No direct replacement, easYgen-3500 + LS-5 can be used instead
8440-1016	MFR1515B/SYN-I	Similar item 8440-1936: EASYGEN-3500-5/P2 + LSG (8444-1074 & 8444-1075)
8440-1031	LS415B	No direct replacement, easYgen-3500 + LS-5 can be used instead
8440-1105	MFR2S45B/PSV+SB	Similar item 8440-1936: EASYGEN-3500-5/P2 & 8445-1046: ESEPRO
8440-1123	MPU2-S-45B/L	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1172	MPU2-S-11B/L	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1173	MPU2-S-15B/L	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1174	MPU2-S-41B/L	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1276	SYNCON PANEL	No direct replacement
8440-1287	MFR2S15B/PSVA	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1323	MFR2S45B/PSVA	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1335	MFR2S45B/PSV+A2I3SB	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1407	MFR2S45B/PSV+A2K06MMBQUSFXXC	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1409	MFR2S45B/A2CD06D09HI1I4JK24MMB	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1428	MFR2S45B/PSV+A2I3SB	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1431	MFR2S15B/PSV+MMBQFSB	Similar item 8440-1936: EASYGEN-3500-5/P2 & 8445-1046: ESEPRO
8440-1448	MFR1545B/SYN-I	Similar item 8440-1936: EASYGEN-3500-5/P2 +

		LSG (8444-1074 & 8444-1075)
8440-1510	LS415B/K12	Similar item 8440-2072: LS-521-5/P1-K12
8440-1528	MFR2S15B/PSV+A2I3SB	Similar item 8440-1936: EASYGEN-3500-5/P2 & 8445-1046: ESEPRO
8440-1542	MFR2S41B/PSV+A2I3SB	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1546	MFR2S45B/A2CDD06D09HI1I4JK24MM	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1617	MFR2S41B/PSV+A2I3SB	Similar item 8440-1937: EASYGEN-3500-1/P2 & 8445-1046: ESEPRO
8440-1631	MFR31S15B/PSVX+Q	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1632	MFR31S45B/PSVX+Q	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1633	MFR32S15B/PSVX+Q	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1634	MFR32S45B/PSVX+Q	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1650	MFR31S11B/PSV+K14ZS	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1651	MFR31S45B/PSV+K14ZS	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1665	MFR2S11B/PSV+A2I3SB	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1681	MFR2S11B/PSV+A2I3SB	Similar item 8440-1937: EASYGEN-3500-1/P2 & 8445-1046: ESEPRO
8440-1694	MFR2S11B/PSVT+A2I3SB	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1695	MFR2S15B/PSV+A2I3SB	Similar item 8440-1936: EASYGEN-3500-5/P2 & 8445-1046: ESEPRO
8440-1733	MFR2S15B/PSVA	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1735	MFR2S45B/PSVA	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1744	MFR2S11B/PSVT+A2I3SB	Similar item 8440-1936: EASYGEN-3500-5/P2 & 8445-1046: ESEPRO

8440-1765	MFR2S11B/PSV+A2I3SB	Similar item 8440-1937: EASYGEN-3500-1/P2 & 8445-1046: ESEPRO
8440-1815	MFR2S11B/A2CD06D09HI1I4JK24MMB	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-1829	MFR2S45B/PSV+A2I3SB	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1836	MFR2S45B/PSV+A2I3SB	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1846	MFR31S15B/PSV+K14ZS	Similar item 8440-1936: EASYGEN-3500-5/P2
8440-1849	MFR1515B/BCIZMPMPSSBSB01UUSU07	Similar item 8440-1936: EASYGEN-3500-5/P2 + LSG (8444-1074 & 8444-1075)
8440-1852	MFR2S11B/A2CDD06D09HI1I4JK24MM	Similar item 8440-1937: EASYGEN-3500-1/P2
8440-2094	MFR2S41B/PSV+A2D06MMBQUSB	Similar item 8440-1937: EASYGEN-3500-1/P2 & 8445-1046: ESEPRO
8440-2099	MFR2S45B/PSV+D06QFQUSB	Similar item 8440-1936: EASYGEN-3500-5/P2 & 8445-1046: ESEPRO
8440-2102	MFR2S11B/PSV+A2G01MMBSB	Similar item 8440-1937: EASYGEN-3500-1/P2 & 8445-1046: ESEPRO
8440-2104	MFR2S41B/PSV+A2G01MMBSB	Similar item 8440-1937: EASYGEN-3500-1/P2 & 8445-1046: ESEPRO
8441-1003	MFR1110B/VDEW	Similar item MRU4
8441-1004	MFR1110B/G59N	Similar item MRN3
8441-1005	MFR1110B/SC	Similar item 8440-1952: LS-521-1/P1
8441-1006	MFR1215B/51V	Similar item MRA4 or MCDGV4
8441-1008	MFR1205B/50-51GN	Similar item MRI4 or MCDGV4
8441-1009	MFR1315B/GPX-I	Similar item MCDGV4
8441-1023	MFR1140B/MP	Similar item 8441-1160: easYprotec-1410-1 or 8441-1161: easYprotec-1410-7



8441-1027	MFR1140B/NU	Similar item MRN3 or XUF2
8441-1033	MFR1345B/GPX	Similar item MRG3 or MCDGV4
8441-1049	MFR1140B/VDEW	Similar item MRU4
8441-1075	MFR1311B/GPX-I	Similar item MCDGV4
8441-1082	MFR1211B/51V	Similar item MRA4 or MCDGV4
8441-1083	MFR1311B/GPX	Similar item MRG3 or MCDGV4
8441-1086	MFR1315B/GPY-I	Similar item MCDGV4
8441-1087	MFR1315B/K08	Similar item MCDGV4
8441-1092	MFR1315B/GPY-I-N	Similar item MCDGV4
8441-1095	MFR1345B/GPY-I	Similar item MCDGV4
8441-1097	MFR1140B/SC	Similar item 8440-1952: LS-521-1/P1
8441-1099	MFR1345B/K08	Similar item MCDGV4
8441-1103	MFR1140B/G59N	Similar item MRN3 or MRU4
8441-1104	MFR1345B/GPX-I	Similar item MCDGV4
8441-1106	MFR1201B/CP	Similar item MRI3 or MRI4
8441-1108	MFR1341B/GPX	Similar item MRG3
8441-1110	MFR1110B/SC+N	Similar item MCDGV4 or LS-5 with aux. power supply
8441-1111	MFR1140B/SC+N	Similar item MCDGV4 or LS-5 with aux. power supply
8441-1114	MFR1341B/GP	Similar item MRG3
8441-1132	MFR1201B/50-51GN	Similar item MRI4 or MCDGV4
LR20406	MFR1140B/G59	Similar item MRU4

LR20610	MFR1110B/NU	Similar item MRU4 or XUF2
LR20685	MFR2S45B/PSV	Similar item 8440-2050: EASYGEN-3200-5/P1
LR20710	MFR2S45B/EVC1	No easygen replacement due to ring operation
LR20988	MFR2S45B/PSV+QUSB	Similar item 8440-2050: EASYGEN-3200-5/P1
LR20995	MFR32S11B/CDHI1I3I4JR1SFT7VZE	Similar item 8440-1937: EASYGEN-3500-1/P2
LR21035	MFR1345B/GP	Similar item MRG3
LR21121	MFR2S15B/PSVT+A2I3SB	Similar item 8440-1936: EASYGEN-3500-5/P2
LR21305	MFR2S15B/PSV+A2I3SB	Similar item 8440-1936: EASYGEN-3500-5/P2

#### Synchronizer: SPM-D11

Item Number	Item Description	Comments
8440-1666	SPM-D1145B/LSXR	Similar item 8440-2080: EASYGEN-2300-5/P1
8440-1705	SPM-D1111B/LSXR	Similar item 8440-2122: EASYGEN-2300-1/P1
8440-1706	SPM-D1115B/LSXR	Similar item 8440-2080: EASYGEN-2300-5/P1

#### Communication Units: GW4

Item Number	Item Description	Comments
5448-895	GW4B/RS232+MOD	Similar item GCP-MG from ProconX
5448-901	GW4B/RS485+MOD	Similar item GCP-MG from ProconX
5448-902	GW4B/PROFIBUS+DPSLAVE	Similar item 8445-1046: ESEPRO
5448-910	GW4B/RS232+LDP	No replacement
8445-1001	GW4M/CAN+MTU4000	No replacement

**Transducers: UMT1**

Item Number	Item Description	Comments
8444-1002	UMT115B/A3SU	No AO replacement, MFR-300 (8444-1090) can be used for CANOpen or ModBus RTU signals
8444-1009	UMT145B/A3SU	No AO replacement, MFR-300 (8444-1090) can be used for CANOpen or ModBus RTU signals
8444-1019	UMT115B/A6	No AO replacement, MFR-300 (8444-1090) can be used for CANOpen or ModBus RTU signals
8444-1022	UMT111B/A3SU	No AO replacement, MFR-300 (8444-1090) can be used for CANOpen or ModBus RTU signals
8444-1057	UMT145B/A6	No AO replacement, MFR-300 (8444-1090) can be used for CANOpen or ModBus RTU signals
8444-1084	UMT171B/A3	No AO replacement, MFR-300 (8444-1090) can be used for CANOpen or ModBus RTU signals
LR20949	UMT145B/A3	No AO replacement, MFR-300 (8444-1090) can be used for CANOpen or ModBus RTU signals
LR21159	UMT141B/A6	No AO replacement, MFR-300 (8444-1090) can be used for CANOpen or ModBus RTU signals
LR21296	UMT111B/A6	No AO replacement, MFR-300 (8444-1090) can be used for CANOpen or ModBus RTU signals

**Protection Relay: ESDR4**

Item Number	Item Description	Comments
5448-897	ESDR405TB	Similar item MRDT4
8441-1010	ESDR405B	Similar item MRDT4 or MCDGV4
8441-1047	ESDR405TM	Similar item MRDT4

8441-1105	ESDR401M	Similar item MRDT4
LR20021	ESDR401TB	Similar item MRDT4
LR20459	ESDR401B	Similar item MRDT4 or MCDGV4
LR20590	ESDR405M	Similar item MRDT4 or MCDGV4
LR20616	ESDR401TM	Similar item MRDT4

Please note that some customers have already been issued a dedicated support statement. In these cases, the support plan as mentioned in your dedicated support statement applies.

Best regards

**Woodward GmbH**



Randhir Kumar

Product Line Manager, Power Generation Controls