

WAGO I/O SYSTEM 750

Mapping Wago I/O with Omron C200H & CV series PLCs

Application note

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Every conceivable measure has been taken to ensure the correctness and completeness of this documentation. However, as errors can never be fully excluded we would appreciate any information or ideas at any time.

We wish to point out that the software and hardware terms as well as the trademarks of companies used and/or mentioned in the present manual are generally trademark or patent protected.

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1 Important comments

To ensure fast installation and start-up of the units described in this manual, we strongly recommend that the following information and explanation is carefully read and adhered to.

1.1 Legal principles

1.1.1 Copyright

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1.1.2 Personnel qualification

The use of the product detailed in this manual is exclusively geared to specialists having qualifications in PLC programming, electrical specialists or persons instructed by electrical specialists who are also familiar with the valid standards. WAGO Kontakttechnik GmbH declines all liability resulting from improper action and damage to WAGO products and third party products due to non-observance of the information contained in this manual.

1.1.3 Intended use

For each individual application, the components supplied are to work with a dedicated hardware and software configuration. Modifications are only admitted within the framework of the possibilities documented in the manuals. All other changes to the hardware and/or software and the non-conforming use of the components entail the exclusion of liability on part of WAGO Kontakttechnik GmbH.

Please direct any requirements pertaining to a modified and/or new hardware or software configuration directly to WAGO Kontakttechnik GmbH.

1.2 Range of validity

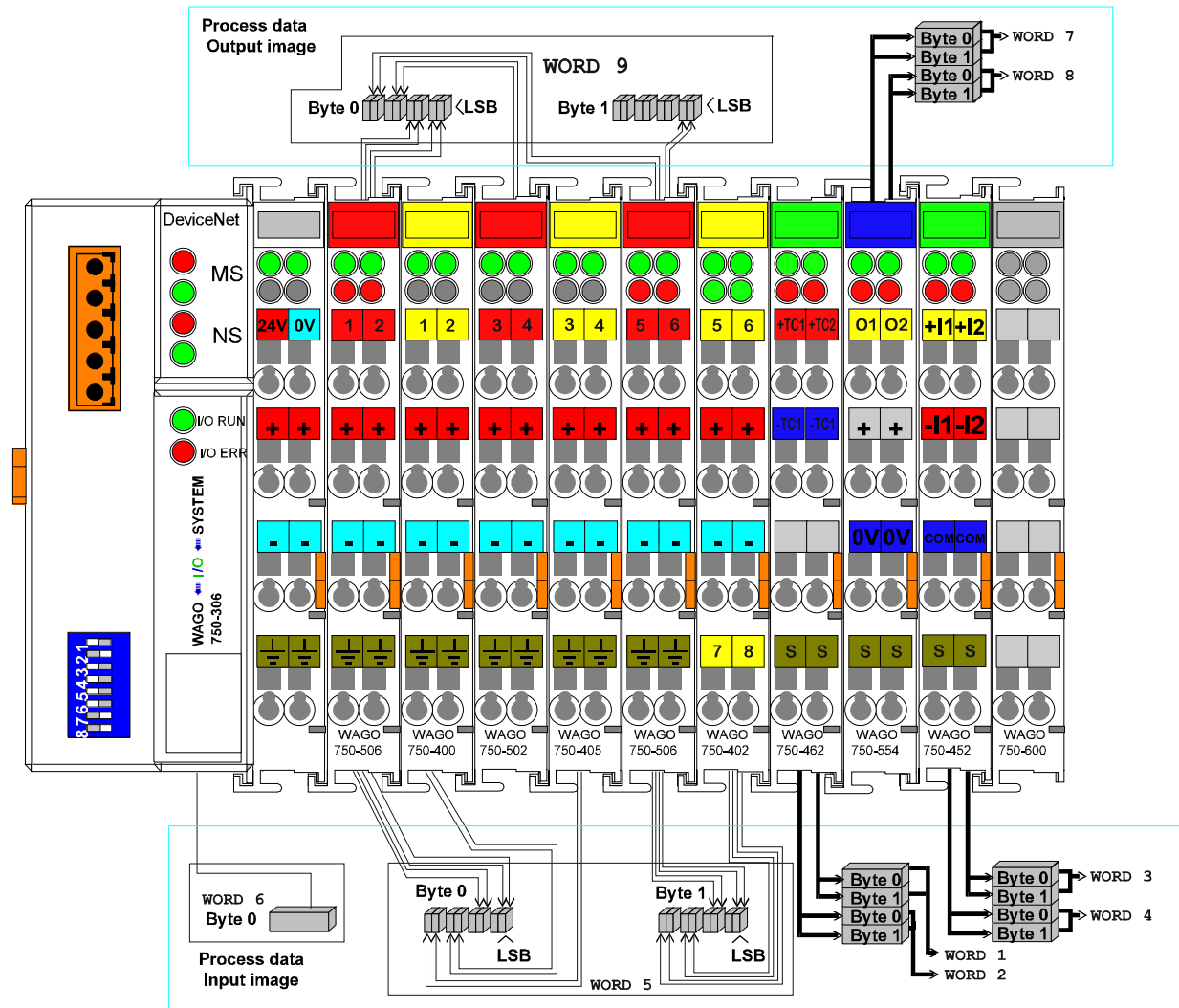
This application note is based on the stated hardware and software of the specific manufacturer as well as the correspondent documentation. This application note is therefore only valid for the described installation.

New hardware and software versions may need to be handled differently. Please note the detailed description in the specific manuals.

2 Description

Mapping Wago I/O with Omron C200H & CV series PLCs

3 Solution



NODE ADDRESS (MAC_ID) OF 2

This application discusses the way to map the above nodes of WAGO I/O in to the various Omron PLCs. Omron uses a mapping method for the CV1-DRM21-V1 and the C200HW-DRM21-V1 scanners as follows. NOTE: Since each group of 16 bits of data take a node address space on DeviceNet, a WAGO I/O may take up more than one node address (MAC_ID). If the node takes more than one address space set the dip switches to the lowest address you want for that node. The scanner will automatically consume what it needs. Be sure no other device address resides in that address space. As in this example the Wago node inputs takes up more memory space than the outputs.

3.1 C200HX/HG/HE CONTROLLERS

OUTPUT ADDRESS	WAGO I/O WORD	NODE ADDRESS (MAC_ID)	INPUT ADDRESS	WAGO I/O WORD
IR 50		00	IR 350	
IR 51		01	IR 351	
IR 52	WORD 7 MAC_ID2	02	IR 352	WORD 1 MAC_ID2
IR 53	WORD 8 MAC_ID2	03	IR 353	WORD 2 MAC_ID2
IR 54	WORD 9 MAC_ID2	04	IR 354	WORD 3 MAC_ID2
IR 55	MAC_ID2	05	IR 355	WORD 4 MAC_ID2
IR 56	MAC_ID2	06	IR 356	WORD 5 MAC_ID2
IR 57	MAC_ID2	07	IR 357	WORD 6 MAC_ID2
IR 58		08	IR 358	
IR 59		09	IR 359	
IR 60		10	IR 360	
IR 61		11	IR 361	
IR 62		12	IR 362	
IR 63		13	IR 363	
IR 64		14	IR 364	
IR 65		15	IR 365	
IR 66		16	IR 366	
IR 67		17	IR 367	
IR 68		18	IR 368	
IR 69		19	IR 369	
IR 70		20	IR 370	
IR 97		47	IR 397	
IR 98		48	IR 398	
IR 99		49	IR 399	

3.2 C200HS CONTROLLERS

OUTPUT ADDRESS	WAGO I/O WORD	NODE ADDRESS (MAC_ID)	INPUT ADDRESS	WAGO I/O WORD
IR 50		00	IR 350	
IR 51		01	IR 351	
IR 52	WORD 7 MAC_ID2	02	IR 352	WORD 1 MAC_ID2
IR 53	WORD 8 MAC_ID2	03	IR 353	WORD 2 MAC_ID2
IR 54	WORD 9 MAC_ID2	04	IR 354	WORD 3 MAC_ID2
IR 55	MAC_ID2	05	IR 355	WORD 4 MAC_ID2
IR 56	MAC_ID2	06	IR 356	WORD 5 MAC_ID2
IR 57	MAC_ID2	07	IR 357	WORD 6 MAC_ID2
IR 58		08	IR 358	
IR 59		09	IR 359	
IR 60		10	IR 360	
IR 61		11	IR 361	
IR 62		12	IR 362	
IR 63		13	IR 363	
IR 64		14	IR 364	
IR 65		15	IR 365	
IR 66		16	IR 366	
IR 67		17	IR 367	
IR 68		18	IR 368	
IR 69		19	IR 369	
IR 70		20	IR 370	
IR 79		29	IR 379	
IR 80		30	IR 380	
IR 81		31	IR 381	

3.3 CV Series CONTROLLERS

OUTPUT ADDRESS	WAGO I/O WORD	NODE ADDRESS (MAC_ID)	INPUT ADDRESS	WAGO I/O WORD
IR 1900		00	IR 2000	
IR 1901		01	IR 2001	
IR 1902	WORD 7 MAC_ID2	02	IR 2002	WORD 1 MAC_ID2
IR 19033	WORD 8 MAC_ID2	03	IR 2003	WORD 2 MAC_ID2
IR 1904	WORD 9 MAC_ID2	04	IR 2004	WORD 3 MAC_ID2
IR 1905	MAC_ID2	05	IR 2005	WORD 4 MAC_ID2
IR 1906	MAC_ID2	06	IR 2006	WORD 5 MAC_ID2
IR 1907	MAC_ID2	07	IR 2007	WORD 6 MAC_ID2
IR 1908		08	IR 2008	
IR 1909		09	IR 2009	
IR 1910		10	IR 2010	
IR 1911		11	IR 2011	
IR 1912		12	IR 2012	
IR 1913		13	IR 2013	
IR 1914		14	IR 2014	
IR 1915		15	IR 2015	
IR 1916		16	IR 2016	
IR 1917		17	IR 2017	
IR 1918		18	IR 2018	
IR 1919		19	IR 2019	
IR 1920		20	IR 2020	
IR 1961		61	IR 2061	
IR 1962		62	IR 2062	
IR 1963		63	IR 2063	



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