JetControl 24x

Quick Reference

V3.20

Technical Data

	JC-241	JC-243	JC-246
Integer registers, remanent	2000	2000	2000
Floating point registers, rem.	256	256	256
Integer / floating point registers, rem.	30000	30000	30000
Flags, remanent	256	256	256
Overlayed flags, remanent	1792	1792	1792
Program memory	64 KB	64 KB	64 KB
Digital inputs, local	16	16	16
Digital outputs, local	8	8	8
max. JX2-I/O modules	7	15	23
max. JX2-Slave modules	1	3	6
max. JX-SIO modules	10	10	10
max. amount of I/Os	136	264	392
Serial interface(s)	1	2	2
Ethernet interface(s)	1	1	1
Flash disk size	1 MB	3 MB	7 MB
Real-time clock	yes	yes	yes

General Register Overview

0 .. 1999	Gen. integer registers
2000 .. 2999	System registers
3000 .. 3309	Registers of the JX2-IO modules
4000 .. 4999	I/O overlay
5000 .. 6999	JX-SIO analogue values
7000 .. 7999	JX-SIO configuration registers
8000 .. 8999	I/O overlay for RemoteScan
10000 .. 10099	Serial interfaces
10100 .. 10299	JetControl configuration registers
10300 .. 10499	I/O overlay for EtherNet/IP
10500 .. 10599	User programmable CAN interface
12100 .. 19999	Registers of the JX2-Slave modules
20000 .. 49999	Gen. integer or floating point registers
65024 .. 65279	Floating point registers

General Flag Overview

FLAG 0 .. 255	Gen. flags
FLAG 256 .. 2047	Flags overayed with registers 0 .. 74
FLAG 2048 .. 2303	Special flags

General I/O Overview

I/O 101 .. 116	Local in-/outputs of JC-24x
I/O 201 .. 2416	In-/outputs of JX2-I/O modules
I/O 7001 .. 7964	In-/outputs of JX-SIO modules
I/O 20001 .. 36000	Virtual outputs for RemoteScan; overlayed with registers 8000 .. 8999

User Registers

0 .. 74	Gen. integer registers with flag overlay
0 .. 1999	Gen. integer registers
20000 .. 49999	Gen. integer or floating point registers
65024 .. 65279	Floating point registers

System Registers: Operating System

2000	Software version of operating system
2001	Status register, bitcoded
	bit 0: 1 = user program running
2002	Runtime since program start in user time base units
2006	Cycle time of all tasks in milliseconds
2008	Error types, bitcoded
	Bit 2: 1= no valid user program
	Bit 3: 1 = timeout at accessing JX2-I/O oder JX-SIO
	Bit 4: 1 = timeout at accessing JX2-Slave module
	Bit 5: 1 = illegal opcode in user program
	Bit 6: 1 = error in arithmetic expression
	Bit 7: 1= label number ambiguous
	Bit 8: 1 = gen. syntax error
	Bit 9: 1 = overload of local outputs
	Bit 10: 1 = illegal branch destination for GOTO or CALL
	Bit 11: 1 = error from Festo CP-FB module
	Bit 12: 1 = task stack over/underflow
2009	Task number of the error
2010	Program address of the error
2032	Delay before system bus initialization [0,1 s]
2037	Runtime since reset in milliseconds
2909	Number of the first floating point register
2960	Password for system commands
2961	System command register
2962	Saved password for user program
2963	Entered password for user program

User Program: Status

2022	Version of user program in RAM
2035	Size of user program in RAM
2970	Build time of user program, minutes
2971	Build time of user program, hour
2972	Build time of user program, day

2973 Build time of user program, month
2974 Build time of user program year

Interface Supervision

2955 Supervision timeout of Ethernet-JetIP activity [ms]
2956 Supervision timeout of SER1 activity [ms]
2957 Supervision timeout of SER2 activity [ms]
2710 Total amount of network errors
2750 Amount of network errors of the task in which the register is read
10019 Amount of errors on SER1
10039 Amount of errors on SER2

Flag 2088 Operating system flag Ethernet supervision
Flag 2089 User flag Ethernet supervision
Flag 2090 Operating system flag SER1 supervision
Flag 2091 User flag SER1 supervision
Flag 2092 Operating system flag SER2 supervision
Flag 2093 User flag SER2 supervision

System Bus Registers

2011 Module number timeout JX2-I/O
2012 Module number timeout JX2-Slave
2013 Amount of JX2-I/O and JX-SIO modules found
2014 Amount of JX2-Slave modules found
2015 Pointer to the modul array
2016 Module array data
2023 Dummy for JX2-I/O modules, bitcoded, bit = 1 : module present
2024 Dummy for JX2-Slave modules, bitcoded, bit = 1 : module present
2027 Overload of outputs on JX2-I/O modules
2028 Monitoring interval JX2-I/O und JX-SIO
2029 Baudrate of system bus
7 = 1 MBaud
6 = 500 kBaud
5 = 250 kBaud
4 = 125 kBaud

2070 Amount of JX-SIO modules found
2071 Total amount of I/O
2073 JX-SIO timeout
2074 Sync-Interval in milliseconds; 0 = off
2077 Enable of special functions of system bus
Bit 2: 1 = user programmable CAN-interface
2760 JX2-I/O timeout configuration
2761 Index in JX2-I/O supervision array
2762 JX2-I/O supervision array data
2763 JX2-I/O supervision timeout
2764 JX2-I/O register timeout
2765 JX2-Slave register timeout

Task Control

2004 Task switch conditions, bitcoded
bit 0: 1 = task switch on task timeout
bit 1: 1 = task switch on GOTO
bit 2: 1 = task switch on IF (condition = FALSE)

2005 Task timeout in milliseconds
2006 Cycle time of all tasks in milliseconds
2007 Highest user task number
2025 Currently processed task
2026 Priority task; 255 = no priority task
2091 Stack space of the task in which the register is read
2100 .. 2199 Task state, task 0 .. 99
0 = task not existing
1 = task stopped
2 = access to network
3 = stopped at breakpoint
250 = WHEN_MAX
253 = USER_INPUT
254 = DELAY
255 = task ready/running

2200 .. 2299 Task program counter, task 0 .. 99
2300 .. 2399 Task timer register for DELAY, Task 0 .. 99

HMI Control (LCD)

2804 Total number of characters
2805 Number of characters per line
2806 Text selection of DISPLAY_TEXT_2
0 = text 1
1 = text 2

2807 Divisor (USER_INPUT)
2808 Decimal positions (USER_INPUT)
2809 Divisor (DISPLAY_VALUE)
2810 Decimal positions (DISPLAY_VALUE)
2811 max. decimal positions (USER_INPUT)
2812 Field length (DISPLAY_VALUE)
2813 Field length (USER_INPUT)
2814 Indirect cursor position
2815 Default value (USER_INPUT)
2816 Sign suppression; 1 = no sign
2817 Status (USER_INPUT)
2818 Enable/disable monitor functions
2819 Display time monitor functions
2820 Enable/disable switch to monitor by <enter>
2821 Dialog language monitor
0 = german
1 = english

2824 Indirect buffer number for device 0
Multi Display Mode
2825 Number of text buffer for display 1
2826 Number of text buffer for display 2
2827 Number of text buffer for display 3
2828 Number of text buffer for display 4
2829 Base number of the key flags for display 1
2830 Base number of the key flags for display 2
2831 Base number of the key flags for display 3
2832 Base number of the key flags for display 4
2833 Register number of the LEDs of display 1
2834 Register number of the LEDs of display 2
2835 Register number of the LEDs of display 3
2836 Register number of the LEDs of display 4

2837 Module number JX2-PRN1 (display redirection to device #8)
2838 Module number JX2-SER1 (display redirection to device #11)
2839 ASCII code for 'clear screen'
2840 ASCII code for 'clear to end of line'
2841 Address of string variable (display redirection to device #7)

Network Control

2702	Offset register: register
2703	Offset register: flags
2704	Offset register: inputs
2705	Offset register: outputs
2707	Indirect network number
2708	Timeout in milliseconds
2709	Execution time in milliseconds
2710	Total amount of network errors
2711	Error code of the last network access 0 = no error 1 = timeout 3 = error message received 5 = invalid network address 6 = invalid number of registers 7 = invalid interface number
2717	Number of retries if errors occur
2718	Total number of retries
2750	Number of network errors of the task in which the register is read
2751	Error code of the last network access of the task in which the register is read
2752	Number of retries of the task in which the register is read
2964	JetIP protocol version

Timer Registers

2002	Runtime since program start in user time base units
2003	User time base in multiples of 10 milliseconds; time base for DELAY, START_TIMER, TIMER_END
2006	Cycle time of all tasks in milliseconds
2037	Runtime since reset in milliseconds
2300 .. 2399	Task timer register for DELAY, Task 0 .. 99

Real-Time Clock

	Direct access to RTC
2911	Seconds
2912	Minutes
2913	Hours
2914	Day of week; 0 = Sunday
2915	Day
2916	Month
2917	Year
	Access to buffer
2921	Seconds
2922	Minutes
2923	Hours
2924	Day of week; 0 = Sunday
2925	Day
2926	Month
2927	Year
2928	Transfer trigger: RTC to buffer

Web and File Functions

2930	Availabilty, bitcoded Bit 0: 1 = FTP server available Bit 1: 1 = HTTP server available bit 2: 1 = E-Mail available bit 3: 1 = data file function available bit 4: 1 = Modbus/TCP available bit 5: 1 = Modbus/TCP server started Bit 6: 1 = EtherNet/IP available
2931	Own IP address
2932	IP address of the SMTP server
2933	IP address of the POP3 server
2934	Port number of the SMTP server
2935	Port number of the POP3 server
2936	Password for the formatting of the flash disk
2937	Status of E-Mail operation
2938	Number of the task sending E-Mail
2977	Status of datafile operation
2978	Number of the task executing data file operations

Remote Scan

2965	Remote Scan: protocol type
2966	Remote Scan: number of blocks
2967	Remote Scan: activity status
8000 .. 8999	16 bit overlay registers of the virtual I/O 20001 .. 36000

Registers of JX2-I/O Modules

Coding of the digital in-/outputs

xxzz	xx:	Module number (2 .. 24)
	zz:	I/O number (1 .. 16)

Coding of the register numbers

3xxz	xx:	Module number (2 .. 24) - 2
	z:	Register number (0 .. 9)

The meaning of the individual registers of the JX2-I/O modules is module specific and can be found in the particular dokumentation.

Registers of JX2-Slave Modules

Coding of the register numbers

1xyzz	x:	Module number (2 .. 7)
	y:	Axis number
	zz:	Register number (0 .. 99)

The meaning of the individual registers of the JX2-Slave modules is module specific and can be found in the particular dokumentation.

JX-SIO Registers

Coding of the digital in-/outputs

7xzz	x:	Module number - 70 (0 .. 9)
	zz:	I/O number (1 .. 64)

Coding of the inputs / registers

5xzz	x:	Module number - 70 (0 .. 9)

	zz:	Register number (0 .. 99)

Coding of the outputs / registers

6xzz	x:	Module number - 70 (0 .. 9
	zz:	Register number (0 .. 99)

Coding of the configuration registers

7xzz	x:	Module number - 70 (0 .. 9
	zz:	Register number (0 .. 99)

5x10 .. 5x16	16 combined digital inputs
5x20 .. 5x27	8 combined digital inputs
5x60 .. 5x71	Analogue inputs
6x10 .. 6x16	16 combined digital outputs
6x20 .. 6x27	8 combined digital outputs
6x60 .. 6x71	Analogue outputs
7x09	Value range of analogue inputs
7x10 .. 7x21	Configuration of analogue inputs
7x29	Value range of analogue outputs
7x30 .. 7x41	Configuration of analogue outputs
7x75	Index to group of 8 digital outputs
7x78	Error mode of digital outputs
7x79	Error state of digital outputs
7x85	Index to analogue outputs
7x88	Error mode of analogue outputs
7x89	Error state of analogue outputs
7x02	Pointer to the JX-SIO terminal array
7x03	Terminal array data of the JX-SIO
7x04	Pointer to function terminals
7x05	Status of function terminals
7x06	Input data of function terminals
7x07	Output data of function terminals
	The following register can also be read in case of a timeout.
7x90	Error register of the JX-SIO module
7x91	Status register of the JX-SIO module
7x92	Pointer to the JX-SIO fault array
7x93	Error array data
7x97	Serial number of JX-SIO
7x98	Monitoring Intervall
7x99	Software version

Serial Interfaces

The first register number refers to interface SER1
The second register number refers to interface SER2

10000/10020	Receiver error status
	bit 15 = 1: BREAK received
	bit 14 = 1: Framing error
	Bit 13 = 1: Parity error
	Bit 12 = 1: Overrun
10001/10021	Configuration
	0 = off
	1 = reserved
	2 = PRIM: user programmable interface
	3 = pcom9; by operating system
10002/10022	Baudrate 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
10003/10023	Character length 5, 6, 7, 8
10004/10024	Stopbits
	1 = 1 Stopbit
	2 = 1,5 Stopbits at character length 5; 2 Stopbits at character length 6, 7, 8
10005/10025	Parity
	0 = NO: no parity
	1 = ODD: odd parity
	2 = EVEN: even parity
	3 = MARK: parity 1
	4 = SPACE: parity 0
10006/10026	Hardware
	0 = RS232
	1 = RS422
10010/10030	Transmit buffer; size: 512 characters
10011/10031	Transmit buffer filling level
10012/10032	Receive buffer; without removing the character
10013/10033	Receive buffer; removing the character
10014/10034	Receive buffer filling level
10015/10035	Receive buffer; 16 bit; little endian
10016/10036	Receive buffer; 16 bit; big endian
10017/10037	Receive buffer; 32 bit; little endian
10018/10038	Receive buffer; 32 bit; big endian
10019/10039	Error counter

JC-24x Configuration

Overlayed with file '/System/cfgvar.ini'

10100	Store configuration to file
10132	IP address; MSB
10133	IP address; 3SB
10134	IP address; 2SB
10135	IP address; LSB
10136	Subnet mask; MSB
10137	Subnet mask; 3SB
10138	Subnet mask; 2SB
10139	Subnet mask; LSB
10140	Default Gateway; MSB
10141	Default Gateway; 3SB
10142	Default Gateway; 2SB
10143	Default Gateway; LSB
10144	Port-number of the JetIP server
10145	IP address of the DNS server
10159	Password for Reg. 10132 to 10219
10200	Host name type
10201 .. 10219	Host name (String variable format)

Static Info Registers

10160	Software version of operating system
10161	Operating system build-version
10162	Board type
10163	Board revision
10164	Board options
10165	Processor revision
10166	DRAM size in bytes
10167	SRAM size in bytes
10170	Type of node
10171	MAC address; manufact. part 20683
10172	MAC address; device part

Dynamic Info Registers

10180	Address switch

10181	RUN-STOP-LOAD switch 1 = LOAD 2 = RUN 3 = STOP
10182	LED state bit 0 = 1: RUN is lit bit 1 = 1: ERR is lit
10183	Battery status 0 = SRAM and RTC supply faulty 1 = SRAM und RTC supply ok
10184	Battery voltage (in 100 mV units)
10185	Logic voltage (in 100 mV units)
10186	Status Ethernet bit 0 = 1: Ethernet available bit 1 = 1: valid link bit 2 = 0: 10 Mbit/s bit 2 = 1: 100 Mbit/s bit 3 = 0: half duplex bit 3 = 1: full duplex
10187	Amount of receive errors on the Ethernet interface
10188	Amount of transmit errors on the Ethernet interface

EtherNet/IP

2910	Time base [ms] (0 = off)
10300 .. 10331	Inputs (direct access)
10332 .. 10363	Outputs (direct access)
10390	Status bit 0: 1 = copying inputs bit 1: 1 = copying outputs
10391	Command 1 = copy inputs 2 = copy outputs
10392	Result of last command 0 = ok; no error 1 = copying inputs already running 2 = copying outputs already running 3 = unknown command
10400 .. 10431	Inputs (buffer)
10432 .. 10463	Outputs (buffer)

CAN-PRIM

10500	Status bit 1: message received bit 2: 1 = ID length 29 bit 0 = ID length 11 bit
10501	Command 1 = validate box 2 = invalidate box 3 = send message 4 = clear NEW-DAT bit 5 = clear overrun bit 6 = clear transmit error bit 7 = clear NEW-DAT fifo 8 = set ID length to 11 bit 9 = set ID length to 29 bit
10502	Box number
10503	NEW-DAT fifo level
10504	NEW-DAT fifo data
10506	Global receive mask
10507	Global receive ID
10510	Box status bit 0: 1 = box valid bit 1: 1 = message received (NEW-DAT) bit 2: 1 = receive overrun bit 3: 1 = transmit error
10511	Box configuration bit 0: 0 = receive box 1 = transmit box
10512	CAN-ID
10513	Number of data bytes
10514 .. 10521	Data byte D0 .. D7

System Registers in Numerical Order

Number	Function	Group
2000	Software version of operating system	Operating system
2001	Status register, bitcoded	Operating system
2002	Runtime since program start in user time base units	Timer registers
2003	User time base in multiples of 10 milliseconds	Timer registers
2004	Task switch conditions, bitcoded	Task control
2005	Task timeout in milliseconds	Task control
2006	Cycle time of all tasks in milliseconds	Timer registers
2007	Highest user task number	Task control
2008	Error types, bitcoded	Operating system
2009	Task number of the error	Operating system
2010	Program address of the error	Operating system
2011	Module number timeout JX2-I/O	System bus
2012	Module number timeout JX2-Slave	System bus
2013	Amount of JX2-I/O and JX-SIO modules found	System bus
2014	Amount of JX2-Slave modules found	System bus
2015	Pointer to the modul array	System bus
2016	Module array data	System bus
2022	Version of user program in RAM	User program
2023	Dummy for JX2-I/O modules, bitcoded	System bus
2024	Dummy for JX2-Slave modules, bitcoded	System bus
2025	Currently processed task	Task control
2026	Priority task	Task control
2027	Overload of outputs on JX2-I/O modules	System bus
2028	Monitoring interval JX2-I/O und JX-SIO	System bus
2029	Baudrate of system bus	System bus
2032	Delay before system bus initialization	Operating system
2035	Size of user program in RAM	User program
2037	Runtime since reset in milliseconds	Timer registers
2070	Amount of JX-SIO modules found	System bus
2071	Total amount of I/O	System bus
2073	JX-SIO timeout	System bus
2074	Sync-Interval in milliseconds	System bus
2077	Enable of special functions of system bus	System bus

2091	Stack space of the task in which the register is read	Task control
2100 .. 2199	Task state, task 0 .. 99	Task control
2200 .. 2299	Task program counter, task 0 .. 99	Task control
2300 .. 2399	Task timer register for DELAY, task 0 .. 99	Timer registers
2600 .. 2610	Flag 0 .. 255	24 flags
2611 .. 2621	Flag 2048 .. 2303	24 special flags
2622 .. 2637	Flag 0 .. 255	16 flags
2638 .. 2653	Flag 2048 .. 2303	16 special flags
2702	Offset register: register	Network
2703	Offset register: flags	Network
2704	Offset register: inputs	Network
2705	Offset register: outputs	Network
2707	Indirect network number	Network
2708	Timeout in milliseconds	Network
2709	Execution time in milliseconds	Network
2710	Total amount of network errors	Network
2711	Error code of the last network access	Network
2717	Number of retries if errors occur	Network
2718	Total number of retries	Network
2750	Number of network errors of the task in which the register is read	Network
2751	Error code of the last network access of the task in which the register is read	Network
2752	Number of retries of the task in which the register is read	Network
2760	JX2-I/O timeout configuration	System bus
2761	Index in JX2-I/O supervision array	System bus
2762	JX2-I/O supervision array data	System bus
2763	JX2-I/O supervision timeout	System bus
2764	JX2-I/O register timeout	System bus
2765	JX2-Slave register timeout	System bus
2804	Total number of characters	HMI
2805	Number of characters per line	HMI
2806	Text selection of DISPLAY_TEXT_2	HMI
2807	Divisor (USER_INPUT)	HMI
2808	Decimal positions (USER_INPUT)	HMI
2809	Divisor (DISPLAY_VALUE)	HMI
2810	Decimal positions (DISPLAY_VALUE)	HMI
2811	max. decimal positions (USER_INPUT)	HMI
2812	Field length (DISPLAY_VALUE)	HMI
2813	Field length (USER_INPUT)	HMI
2814	Indirect cursor position	HMI
2815	Default value (USER_INPUT)	HMI
2816	Sign suppression; 1 = no sign	HMI
2817	Status (USER_INPUT)	HMI
2818	Enable/disable monitor functions	HMI
2819	Display time monitor functions	HMI
2820	Enable/disable switch to monitor by <enter>	HMI
2821	Dialog language monitor	HMI
2824	Indirect buffer number for device 0	HMI
2825	Number of text buffer for display 1	HMI
2826	Number of text buffer for display 2	HMI
2827	Number of text buffer for display 3	HMI
2828	Number of text buffer for display 4	HMI
2829	Base number of the key flags for display 1	HMI
2830	Base number of the key flags for display 2	HMI
2831	Base number of the key flags for display 3	HMI
2832	Base number of the key flags for display 4	HMI
2833	Register number of the LEDs of display 1	HMI
2834	Register number of the LEDs of display 2	HMI
2835	Register number of the LEDs of display 3	HMI
2836	Register number of the LEDs of display 4	HMI
2837	Module number JX2-PRN1	HMI
2838	Module number JX2-SER1	HMI
2839	ASCII code for 'clear screen'	HMI
2840	ASCII code for 'clear to end of line'	HMI
2841	Address of string variable	HMI
2909	Number of the first floating point register	Operating system
2910	Time base [ms]	EtherNet/IP
2911	Seconds	RTC (direct)
2912	Minutes	RTC (direct)
2913	Hours	RTC (direct)
2914	Day of week; 0 = Sunday	RTC (direct)
2915	Day	RTC (direct)
2916	Month	RTC (direct)
2917	Year	RTC (direct)
2921	Seconds	RTC (buffer)
2922	Minutes	RTC (buffer)
2923	Hours	RTC (buffer)
2924	Day of week; 0 = Sunday	RTC (buffer)
2925	Day	RTC (buffer)
2926	Month	RTC (buffer)
2927	Year	RTC (buffer)
2928	Transfer trigger: RTC to buffer	RTC
2930	Availabilty, bitcoded	Web Functions
2931	Own IP address	Web Functions
2932	IP address of the SMTP server	Web Functions
2933	IP address of the POP3 server	Web Functions
2934	Port number of the SMTP server	Web Functions
2935	Port number of the POP3 server	Web Functions
2936	Password for the formatting of the flash disk	Web Functions
2937	Status of E-Mail operation	Web Functions
2938	Number of the task sending E-Mail	Web Functions
2960	Password for system commands	Operating system
2961	System command register	Operating system
2962	Saved password for user program	Operating system
2963	Entered password for user program	Operating system
2964	JetIP protocol version	Network
2965	Remote Scan: protocol type	Remote Scan

2966	Remote Scan: number of blocks	Remote Scan
2967	Remote Scan: activity status	Remote Scan
2970	Build time of user program, minutes	User program
2971	Build time of user program, hour	User program
2972	Build time of user program, day	User program
2973	Build time of user program, month	User program
2974	Build time of user program, year	User program
2977	Status of datafile operation	Web Functions
2978	Number of the task executing data file operations	Web Functions
3000 .. 3229	Registers of JX2-I/O modules	
4000 .. 4044	Input 101 .. 2416	32 inputs
4060 .. 4106	Input 101 .. 2416	16 inputs
4120 .. 4167	Input 101 .. 2416	8 inputs
4200 .. 4244	Output 101 .. 2416	32 outputs
4260 .. 4306	Output 101 .. 2416	16 outputs
4320 .. 4367	Output 101 .. 2416	8 outputs
5000 .. 5999	Input overlay	JX-SIO
6000 .. 6999	Output overlay	JX-SIO
7000 .. 7999	Registers	JX-SIO
8000 .. 8999	I/O overlay	Remote Scan
10000/10020	Receiver error status	Serial Interface
10001/10021	Configuration	Serial Interface
10002/10022	Baudrate	Serial Interface
10003/10023	Character length	Serial Interface
10004/10024	Stopbits	Serial Interface
10005/10025	Parity	Serial Interface
10006/10026	Hardware	Serial Interface
10010/10030	Transmit buffer	Serial Interface
10011/10031	Transmit buffer filling level	Serial Interface
10012/10032	Receive buffer; without removing the character	Serial Interface
10013/10033	Receive buffer; removing the character	Serial Interface
10014/10034	Receive buffer filling level	Serial Interface
10015/10035	Receive buffer; 16 bit; little endian	Serial Interface
10016/10036	Receive buffer; 16 bit; big endian	Serial Interface
10017/10037	Receive buffer; 32 bit; little endian	Serial Interface
10018/10038	Receive buffer; 32 bit; big endian	Serial Interface
10019/10039	Error counter	Serial Interface
10100	Store configuration to file	Configuration
10132	IP address; MSB	Configuration
10133	IP address; 3SB	Configuration
10134	IP address; 2SB	Configuration
10135	IP address; LSB	Configuration
10136	Subnet mask; MSB	Configuration
10137	Subnet mask; 3SB	Configuration
10138	Subnet mask; 2SB	Configuration
10139	Subnet mask; LSB	Configuration
10140	Default Gateway; MSB	Configuration
10141	Default Gateway; 3SB	Configuration
10142	Default Gateway; 2SB	Configuration
10143	Default Gateway; LSB	Configuration
10144	Port number of the JetIP server	Configuration
10145	IP address of the DNS server	Configuration
10159	Password	Configuration
10160	Software version of operating system	Static Info
10161	Operating system build-version	Static Info
10162	Board type	Static Info
10163	Board revision	Static Info
10164	Board options	Static Info
10165	Processor revision	Static Info
10166	DRAM size in bytes	Static Info
10167	SRAM size in bytes	Static Info
10170	Type of node	Static Info
10171	MAC address; manufact. part	Static Info
10172	MAC address; device part	Static Info
10180	Address switch	Dynamic Info
10181	RUN-STOP-LOAD switch	Dynamic Info
10182	LED state	Dynamic Info
10183	Battery status	Dynamic Info
10184	Battery voltage (in 100 mV units)	Dynamic Info
10185	Logic voltage (in 100 mV units)	Dynamic Info
10186	Status Ethernet	Dynamic Info
10187	Amount of receive errors on the Ethernet interface	Dynamic Info
10188	Amount of transmit errors on the Ethernet interface	Dynamic Info
10200	Host name type	Configuration
10201	Host name	Configuration
10300 .. 10331	Inputs (direct access)	EtherNet/IP
10332 .. 10363	Outputs (direct access)	EtherNet/IP
10390	Status	EtherNet/IP
10391	Command	EtherNet/IP
10392	Result of last command	EtherNet/IP
10400 .. 10431	Inputs (buffer)	EtherNet/IP
10432 .. 10463	Outputs (buffer)	EtherNet/IP
10500	Status	CAN-PRIM
10501	Command	CAN-PRIM
10502	Box number	CAN-PRIM
10503	NEW-DAT fifo level	CAN-PRIM
10504	NEW-DAT fifo data	CAN-PRIM
10506	Global receive mask	CAN-PRIM
10507	Global receive ID	CAN-PRIM
10510	Box status	CAN-PRIM
10511	Box configuration	CAN-PRIM
10512	CAN-ID	CAN-PRIM
10513	Number of data bytes	CAN-PRIM
10514 .. 10521	Data byte D0 .. D7	CAN-PRIM

Special Flags: Operating System

FLAG 2058	Priority of the JetIP communication
FLAG 2072	Stop at program errors; task/program
FLAG 2073	Stop at arithmetic errors
FLAG 2074	Arithmetic error has occured
FLAG 2075	Network error has occured
FLAG 2076	Carry bit (SHIFT commands)
FLAG 2077	Receive at each task swap (CAN-PRIM)

Special Flags: System Bus

FLAG 2048	Timeout at access to JX2-I/O or JX-SIO module
FLAG 2049	Timeout at access to JX2-Slave module
FLAG 2050	Timeout at register access to JX2-I/O module
FLAG 2059	Read JX2-I/O inputs at each task swap
FLAG 2061	Read outputs from JX2-I/O module
FLAG 2065	Enable/disable error signal from output drivers
FLAG 2067	fatal system bus error
FLAG 2068	Accumulation of system bus errors
FLAG 2270	Access to non active JX-SIO
FLAG 2272	Access to unknown JX-SIO register
FLAG 2273	Access to invalid JX-SIO register
FLAG 2274	Timeout at JX-SIO node guarding
FLAG 2275	Internal reset of JX-SIO occured

Special Flags: Interfaces

FLAG 2088	Operating system flag Ethernet supervision
FLAG 2089	User flag Ethernet supervision
FLAG 2090	Operating system flag SER1 supervision
FLAG 2091	User flag SER1 supervision
FLAG 2092	Operating system flag SER2 supervision
FLAG 2093	User flag SER2 supervision

Special Flags: HMI

These flags do not apply for LCD17, LCD19 und LCD27

FLAG 2224	LED of key „F1“
FLAG 2225	LED of key „F2“
FLAG 2226	LED of key „F3“
FLAG 2227	LED of key „F4“
FLAG 2228	LED of key „F5“
FLAG 2229	LED of key „F6“
FLAG 2230	LED of key „F7“
FLAG 2231	LED of key „F8“
FLAG 2232	LED of key „F9“
FLAG 2233	LED of key „F10“
FLAG 2234	LED of key „F11“
FLAG 2235	LED of key „F12“
FLAG 2201	Key „F1“
FLAG 2202	Key „F2“
FLAG 2203	Key „F3“
FLAG 2204	Key „F4“
FLAG 2205	Key „F5“
FLAG 2206	Key „F6“
FLAG 2207	Key „F7“
FLAG 2208	Key „F8“
FLAG 2209	Key „F9“
FLAG 2210	Key „F10“
FLAG 2211	Key „F11“
FLAG 2212	Key „F12“
FLAG 2181	Key „Shift + F1“
FLAG 2182	Key „Shift + F2“
FLAG 2183	Key „Shift + F3“
FLAG 2184	Key „Shift + F4“
FLAG 2185	Key „Shift + F5“
FLAG 2186	Key „Shift + F6“
FLAG 2187	Key „Shift + F7“
FLAG 2188	Key „Shift + F8“
FLAG 2189	Key „Shift + F9“
FLAG 2190	Key „Shift + F10“
FLAG 2191	Key „Shift + F11“
FLAG 2192	Key „Shift + F12“
FLAG 2213	Key „→“
FLAG 2214	Key „←“
FLAG 2215	Key „R“
FLAG 2216	Key „I/O“
FLAG 2217	Key „=“
FLAG 2218	Key „C“
FLAG 2219	Key „ENTER“
FLAG 2220	Key „-“
FLAG 2222	Key „.“
FLAG 2193	Key „Shift + ←“
FLAG 2194	Key „Shift + →“
FLAG 2195	Key „Shift + R“
FLAG 2196	Key „Shift + I/O“
FLAG 2197	Key „Shift + =“
FLAG 2198	Key „Shift + C“
FLAG 2199	Key „Shift + ENTER“
FLAG 2221	Key „Shift + -“
FLAG 2223	Key „Shift + .“
FLAG 2160	Key „0“
FLAG 2161	Key „1“
FLAG 2162	Key „2“
FLAG 2163	Key „3“
FLAG 2164	Key „4“
FLAG 2165	Key „5“
FLAG 2166	Key „6“
FLAG 2167	Key „7“
FLAG 2168	Key „8“
FLAG 2169	Key „9“
FLAG 2170	Key „Shift + 0“
FLAG 2171	Key „Shift + 1“
FLAG 2172	Key „Shift + 2“
FLAG 2173	Key „Shift + 3“
FLAG 2174	Key „Shift + 4“
FLAG 2175	Key „Shift + 5“
FLAG 2176	Key „Shift + 6“
FLAG 2177	Key „Shift + 7“
FLAG 2178	Key „Shift + 8“
FLAG 2179	Key „Shift + 9“
FLAG 2200	Key „Shift“

Special Flags: HMI LCD 17 / 19

FLAG 201	Key „F1“
FLAG 202	Key „F2“
FLAG 203	Key „F3“
FLAG 204	Key „F4“
FLAG 205	Key „F5“
FLAG 206	Key „F6“
FLAG 221	Key „↑“
FLAG 222	Key „↓“
FLAG 223	Key „←“
FLAG 224	Key „→“
FLAG 230	Key „Shift“
FLAG 231	Key „R“
FLAG 232	Key „I/O“
FLAG 233	Key „C“
FLAG 234	Key „ENTER“
FLAG 235	Key „0“
FLAG 236	Key „1“
FLAG 237	Key „2“
FLAG 238	Key „3“
FLAG 239	Key „4“
FLAG 240	Key „5“
FLAG 241	Key „6“
FLAG 242	Key „7“
FLAG 243	Key „8“
FLAG 244	Key „9“
FLAG 245	Key „.“
FLAG 246	Key „-“
FLAG 248	Key „=“
FLAG 249	Key „⇓“ (nur LCD 19)

Special Flags: HMI LCD 27

FLAG 2209	Key „↑“
FLAG 2210	Key „↓“
FLAG 2211	Key „C“
FLAG 2212	Key „ENTER“

Special Flags: HMI NUM 25

FLAG 2206	Key „S1“
FLAG 2207	Key „S2“
FLAG 2208	Key „S3“
FLAG 2209	Key „S4“
FLAG 2210	Key „S5“
FLAG 2186	Key „Shift + S1“
FLAG 2187	Key „Shift + S2“
FLAG 2188	Key „Shift + S3“
FLAG 2189	Key „Shift + S4“
FLAG 2190	Key „Shift + S5“

32 Combined Inputs

4000	101 .. 108	109 .. 116	201 .. 208	209 .. 216
4001	109 .. 116	201 .. 208	209 .. 216	301 .. 308
4002	201 .. 208	209 .. 216	301 .. 308	309 .. 316
4003	209 .. 216	301 .. 308	309 .. 316	401 .. 408
4004	301 .. 308	309 .. 316	401 .. 408	409 .. 416
4005	309 .. 316	401 .. 408	409 .. 416	501 .. 508
4006	401 .. 408	409 .. 416	501 .. 508	509 .. 516
4007	409 .. 416	501 .. 508	509 .. 516	601 .. 608
4008	501 .. 508	509 .. 516	601 .. 608	609 .. 616
4009	509 .. 516	601 .. 608	609 .. 616	701 .. 708
4010	601 .. 608	609 .. 616	701 .. 708	709 .. 716
4011	609 .. 616	701 .. 708	709 .. 716	801 .. 808
4012	701 .. 708	709 .. 716	801 .. 808	809 .. 816
4013	709 .. 716	801 .. 808	809 .. 816	901 .. 908
4014	801 .. 808	809 .. 816	901 .. 908	909 .. 916
4015	809 .. 816	901 .. 908	909 .. 916	1001 .. 1008
4016	901 .. 908	909 .. 916	1001 .. 1008	1009 .. 1016
4017	909 .. 916	1001 .. 1008	1009 .. 1016	1101 .. 1108
4018	1001 .. 1008	1009 .. 1016	1101 .. 1108	1109 .. 1116
4019	1009 .. 1016	1101 .. 1108	1109 .. 1116	1201 .. 1208
4020	1101 .. 1108	1109 .. 1116	1201 .. 1208	1209 .. 1216
4021	1109 .. 1116	1201 .. 1208	1209 .. 1216	1301 .. 1308
4022	1201 .. 1208	1209 .. 1216	1301 .. 1308	1309 .. 1316
4023	1209 .. 1216	1301 .. 1308	1309 .. 1316	1401 .. 1408
4024	1301 .. 1308	1309 .. 1316	1401 .. 1408	1409 .. 1416
4025	1309 .. 1316	1401 .. 1408	1409 .. 1416	1501 .. 1508
4026	1401 .. 1408	1409 .. 1416	1501 .. 1508	1509 .. 1516
4027	1409 .. 1416	1501 .. 1508	1509 .. 1516	1601 .. 1608
4028	1501 .. 1508	1509 .. 1516	1601 .. 1608	1609 .. 1616
4029	1509 .. 1516	1601 .. 1608	1609 .. 1616	1701 .. 1708
4030	1601 .. 1608	1609 .. 1616	1701 .. 1708	1709 .. 1716
4031	1609 .. 1616	1701 .. 1708	1709 .. 1716	1801 .. 1808
4032	1701 .. 1708	1709 .. 1716	1801 .. 1808	1809 .. 1816
4033	1709 .. 1716	1801 .. 1808	1809 .. 1816	1901 .. 1908
4034	1801 .. 1808	1809 .. 1816	1901 .. 1908	1909 .. 1916
4035	1809 .. 1816	1901 .. 1908	1909 .. 1916	2001 .. 2008
4036	1901 .. 1908	1909 .. 1916	2001 .. 2008	2009 .. 2016
4037	1909 .. 1916	2001 .. 2008	2009 .. 2016	2101 .. 2108
4038	2001 .. 2008	2009 .. 2016	2101 .. 2108	2109 .. 2116
4039	2009 .. 2016	2101 .. 2108	2109 .. 2116	2201 .. 2208
4040	2101 .. 2108	2109 .. 2116	2201 .. 2208	2209 .. 2216
4041	2109 .. 2116	2201 .. 2208	2209 .. 2216	2301 .. 2308
4042	2201 .. 2208	2209 .. 2216	2301 .. 2308	2309 .. 2316
4043	2209 .. 2216	2301 .. 2308	2309 .. 2316	2401 .. 2408
4044	2301 .. 2308	2309 .. 2316	2401 .. 2408	2409 .. 2416

16 Combined Inputs

4060	101 .. 108	109 .. 116
4061	109 .. 116	201 .. 208
4062	201 .. 208	209 .. 216
4063	209 .. 216	301 .. 308
4064	301 .. 308	309 .. 316
4065	309 .. 316	401 .. 408
4066	401 .. 408	409 .. 416
4067	409 .. 416	501 .. 508
4068	501 .. 508	509 .. 516
4069	509 .. 516	601 .. 608
4070	601 .. 608	609 .. 616
4071	609 .. 616	701 .. 708
4072	701 .. 708	709 .. 716
4073	709 .. 716	801 .. 808
4074	801 .. 808	809 .. 816
4075	809 .. 816	901 .. 908
4076	901 .. 908	909 .. 916
4077	909 .. 916	1001 .. 1008
4078	1001 .. 1008	1009 .. 1016
4079	1009 .. 1016	1101 .. 1108
4080	1101 .. 1108	1109 .. 1116
4081	1109 .. 1116	1201 .. 1208
4082	1201 .. 1208	1209 .. 1216
4083	1209 .. 1216	1301 .. 1308
4084	1301 .. 1308	1309 .. 1316
4085	1309 .. 1316	1401 .. 1408
4086	1401 .. 1408	1409 .. 1416
4087	1409 .. 1416	1501 .. 1508
4088	1501 .. 1508	1509 .. 1516
4089	1509 .. 1516	1601 .. 1608
4090	1601 .. 1608	1609 .. 1616
4091	1609 .. 1616	1701 .. 1708
4092	1701 .. 1708	1709 .. 1716
4093	1709 .. 1716	1801 .. 1808
4094	1801 .. 1808	1809 .. 1816
4095	1809 .. 1816	1901 .. 1908
4096	1901 .. 1908	1909 .. 1916
4097	1909 .. 1916	2001 .. 2008
4098	2001 .. 2008	2009 .. 2016
4099	2009 .. 2016	2101 .. 2108
4100	2101 .. 2108	2109 .. 2116
4101	2109 .. 2116	2201 .. 2208
4102	2201 .. 2208	2209 .. 2216
4103	2209 .. 2216	2301 .. 2308
4104	2301 .. 2308	2309 .. 2316
4105	2309 .. 2316	2401 .. 2408
4106	2401 .. 2408	2409 .. 2416

8 Combined Inputs

4120	101 .. 108
4121	109 .. 116
4122	201 .. 208
4123	209 .. 216
4124	301 .. 308
4125	309 .. 316
4126	401 .. 408
4127	409 .. 416
4128	501 .. 508
4129	509 .. 516
4130	601 .. 608
4131	609 .. 616
4132	701 .. 708
4133	709 .. 716
4134	801 .. 808
4135	809 .. 816
4136	901 .. 908
4137	909 .. 916
4138	1001 .. 1008
4139	1009 .. 1016
4140	1101 .. 1108
4141	1109 .. 1116
4142	1201 .. 1208
4143	1209 .. 1216
4144	1301 .. 1308
4145	1309 .. 1316
4146	1401 .. 1408
4147	1409 .. 1416
4148	1501 .. 1508
4149	1509 .. 1516
4150	1601 .. 1608
4151	1609 .. 1616
4152	1701 .. 1708
4153	1709 .. 1716
4154	1801 .. 1808
4155	1809 .. 1816
4156	1901 .. 1908
4157	1909 .. 1916
4158	2001 .. 2008
4159	2009 .. 2016
4160	2101 .. 2108
4161	2109 .. 2116
4162	2201 .. 2208
4163	2209 .. 2216
4164	2301 .. 2308
4165	2309 .. 2316
4166	2401 .. 2408
4167	2409 .. 2416

32 Combined Outputs

4200	101 .. 108	109 .. 116	201 .. 208	209 .. 216
4201	109 .. 116	201 .. 208	209 .. 216	301 .. 308
4202	201 .. 208	209 .. 216	301 .. 308	309 .. 316
4203	209 .. 216	301 .. 308	309 .. 316	401 .. 408
4204	301 .. 308	309 .. 316	401 .. 408	409 .. 416
4205	309 .. 316	401 .. 408	409 .. 416	501 .. 508
4206	401 .. 408	409 .. 416	501 .. 508	509 .. 516
4207	409 .. 416	501 .. 508	509 .. 516	601 .. 608
4208	501 .. 508	509 .. 516	601 .. 608	609 .. 616
4209	509 .. 516	601 .. 608	609 .. 616	701 .. 708
4210	601 .. 608	609 .. 616	701 .. 708	709 .. 716
4211	609 .. 616	701 .. 708	709 .. 716	801 .. 808
4212	701 .. 708	709 .. 716	801 .. 808	809 .. 816
4213	709 .. 716	801 .. 808	809 .. 816	901 .. 908
4214	801 .. 808	809 .. 816	901 .. 908	909 .. 916
4215	809 .. 816	901 .. 908	909 .. 916	1001 .. 1008
4216	901 .. 908	909 .. 916	1001 .. 1008	1009 .. 1016
4217	909 .. 916	1001 .. 1008	1009 .. 1016	1101 .. 1108
4218	1001 .. 1008	1009 .. 1016	1101 .. 1108	1109 .. 1116
4219	1009 .. 1016	1101 .. 1108	1109 .. 1116	1201 .. 1208
4220	1101 .. 1108	1109 .. 1116	1201 .. 1208	1209 .. 1216
4221	1109 .. 1116	1201 .. 1208	1209 .. 1216	1301 .. 1308
4222	1201 .. 1208	1209 .. 1216	1301 .. 1308	1309 .. 1316
4223	1209 .. 1216	1301 .. 1308	1309 .. 1316	1401 .. 1408
4224	1301 .. 1308	1309 .. 1316	1401 .. 1408	1409 .. 1416
4225	1309 .. 1316	1401 .. 1408	1409 .. 1416	1501 .. 1508
4226	1401 .. 1408	1409 .. 1416	1501 .. 1508	1509 .. 1516
4227	1409 .. 1416	1501 .. 1508	1509 .. 1516	1601 .. 1608
4228	1501 .. 1508	1509 .. 1516	1601 .. 1608	1609 .. 1616
4229	1509 .. 1516	1601 .. 1608	1609 .. 1616	1701 .. 1708
4230	1601 .. 1608	1609 .. 1616	1701 .. 1708	1709 .. 1716
4231	1609 .. 1616	1701 .. 1708	1709 .. 1716	1801 .. 1808
4232	1701 .. 1708	1709 .. 1716	1801 .. 1808	1809 .. 1816
4233	1709 .. 1716	1801 .. 1808	1809 .. 1816	1901 .. 1908
4234	1801 .. 1808	1809 .. 1816	1901 .. 1908	1909 .. 1916
4235	1809 .. 1816	1901 .. 1908	1909 .. 1916	2001 .. 2008
4236	1901 .. 1908	1909 .. 1916	2001 .. 2008	2009 .. 2016
4237	1909 .. 1916	2001 .. 2008	2009 .. 2016	2101 .. 2108
4238	2001 .. 2008	2009 .. 2016	2101 .. 2108	2109 .. 2116
4239	2009 .. 2016	2101 .. 2108	2109 .. 2116	2201 .. 2208
4240	2101 .. 2108	2109 .. 2116	2201 .. 2208	2209 .. 2216
4241	2109 .. 2116	2201 .. 2208	2209 .. 2216	2301 .. 2308
4242	2201 .. 2208	2209 .. 2216	2301 .. 2308	2309 .. 2316
4243	2209 .. 2216	2301 .. 2308	2309 .. 2316	2401 .. 2408
4244	2301 .. 2308	2309 .. 2316	2401 .. 2408	2409 .. 2416

16 Combined Outputs

4260	101 .. 108	109 .. 116
4261	109 .. 116	201 .. 208
4262	201 .. 208	209 .. 216
4263	209 .. 216	301 .. 308
4264	301 .. 308	309 .. 316
4265	309 .. 316	401 .. 408
4266	401 .. 408	409 .. 416
4267	409 .. 416	501 .. 508
4268	501 .. 508	509 .. 516
4269	509 .. 516	601 .. 608
4270	601 .. 608	609 .. 616
4271	609 .. 616	701 .. 708
4272	701 .. 708	709 .. 716
4273	709 .. 716	801 .. 808
4274	801 .. 808	809 .. 816
4275	809 .. 816	901 .. 908
4276	901 .. 908	909 .. 916
4277	909 .. 916	1001 .. 1008
4278	1001 .. 1008	1009 .. 1016
4279	1009 .. 1016	1101 .. 1108
4280	1101 .. 1108	1109 .. 1116
4281	1109 .. 1116	1201 .. 1208
4282	1201 .. 1208	1209 .. 1216
4283	1209 .. 1216	1301 .. 1308
4284	1301 .. 1308	1309 .. 1316
4285	1309 .. 1316	1401 .. 1408
4286	1401 .. 1408	1409 .. 1416
4287	1409 .. 1416	1501 .. 1508
4288	1501 .. 1508	1509 .. 1516
4289	1509 .. 1516	1601 .. 1608
4290	1601 .. 1608	1609 .. 1616
4291	1609 .. 1616	1701 .. 1708
4292	1701 .. 1708	1709 .. 1716
4293	1709 .. 1716	1801 .. 1808
4294	1801 .. 1808	1809 .. 1816
4295	1809 .. 1816	1901 .. 1908
4296	1901 .. 1908	1909 .. 1916
4297	1909 .. 1916	2001 .. 2008
4298	2001 .. 2008	2009 .. 2016
4299	2009 .. 2016	2101 .. 2108
4300	2101 .. 2108	2109 .. 2116
4301	2109 .. 2116	2201 .. 2208
4302	2201 .. 2208	2209 .. 2216
4303	2209 .. 2216	2301 .. 2308
4304	2301 .. 2308	2309 .. 2316
4305	2309 .. 2316	2401 .. 2408
4306	2401 .. 2408	2409 .. 2416

8 Combined Outputs

4320	101 .. 108
4321	109 .. 116
4322	201 .. 208
4323	209 .. 216
4324	301 .. 308
4325	309 .. 316
4326	401 .. 408
4327	409 .. 416
4328	501 .. 508
4329	509 .. 516
4330	601 .. 608
4331	609 .. 616
4332	701 .. 708
4333	709 .. 716
4334	801 .. 808
4335	809 .. 816
4336	901 .. 908
4337	909 .. 916
4338	1001 .. 1008
4339	1009 .. 1016
4340	1101 .. 1108
4341	1109 .. 1116
4342	1201 .. 1208
4343	1209 .. 1216
4344	1301 .. 1308
4345	1309 .. 1316
4346	1401 .. 1408
4347	1409 .. 1416
4348	1501 .. 1508
4349	1509 .. 1516
4350	1601 .. 1608
4351	1609 .. 1616
4352	1701 .. 1708
4353	1709 .. 1716
4354	1801 .. 1808
4355	1809 .. 1816
4356	1901 .. 1908
4357	1909 .. 1916
4358	2001 .. 2008
4359	2009 .. 2016
4360	2101 .. 2108
4361	2109 .. 2116
4362	2201 .. 2208
4363	2209 .. 2216
4364	2301 .. 2308
4365	2309 .. 2316
4366	2401 .. 2408
4367	2409 .. 2416

Overlay: Registers - Flags

0	FLAG 256 ... 279
1	FLAG 280 ... 303
2	FLAG 304 ... 327
3	FLAG 328 ... 351
4	FLAG 352 ... 375
5	FLAG 376 ... 399
6	FLAG 400 ... 423
7	FLAG 424 ... 447
8	FLAG 448 ... 471
9	FLAG 472 ... 495
10	FLAG 496 ... 519
11	FLAG 520 ... 543
12	FLAG 544 ... 567
13	FLAG 568 ... 591
14	FLAG 592 ... 615
15	FLAG 616 ... 639
16	FLAG 640 ... 663
17	FLAG 664 ... 687
18	FLAG 688 ... 711
19	FLAG 712 ... 735
20	FLAG 736 ... 759
21	FLAG 760 ... 783
22	FLAG 784 ... 807
23	FLAG 808 ... 831
24	FLAG 832 ... 855
25	FLAG 856 ... 879
26	FLAG 880 ... 903
27	FLAG 904 ... 927
28	FLAG 928 ... 951
29	FLAG 952 ... 975
30	FLAG 976 ... 999
31	FLAG 1000 ... 1023
32	FLAG 1024 ... 1047
33	FLAG 1048 ... 1071
34	FLAG 1072 ... 1095
35	FLAG 1096 ... 1119
36	FLAG 1120 ... 1144
37	FLAG 1144 ... 1167
38	FLAG 1168 ... 1191
39	FLAG 1192 ... 1215
40	FLAG 1216 ... 1239
41	FLAG 1240 ... 1263
42	FLAG 1264 ... 1287
43	FLAG 1288 ... 1311
44	FLAG 1312 ... 1335
45	FLAG 1336 ... 1359
46	FLAG 1360 ... 1383
47	FLAG 1384 ... 1407
48	FLAG 1408 ... 1431
49	FLAG 1432 ... 1455
50	FLAG 1456 ... 1479
51	FLAG 1480 ... 1503
52	FLAG 1504 ... 1527
53	FLAG 1528 ... 1551
54	FLAG 1552 ... 1575
55	FLAG 1576 ... 1659
56	FLAG 1600 ... 1623
57	FLAG 1624 ... 1647
58	FLAG 1648 ... 1671
59	FLAG 1672 ... 1695
60	FLAG 1696 ... 1719
61	FLAG 1720 ... 1743
62	FLAG 1744 ... 1767
63	FLAG 1768 ... 1791
64	FLAG 1792 ... 1815
65	FLAG 1816 ... 1839
66	FLAG 1840 ... 1863
67	FLAG 1864 ... 1887
68	FLAG 1888 ... 1911
69	FLAG 1912 ... 1935
70	FLAG 1936 ... 1959
71	FLAG 1960 ... 1983
72	FLAG 1984 ... 2007
73	FLAG 2008 ... 2031
74	FLAG 2032 ... 2047

24 Combined Flags

2600	FLAG 0 ... 23
2601	FLAG 24 ... 47
2602	FLAG 48 ... 71
2603	FLAG 72 ... 95
2604	FLAG 96 ... 119
2605	FLAG 120 ... 143
2606	FLAG 144 ... 167
2607	FLAG 168 ... 191
2608	FLAG 192 ... 215
2609	FLAG 216 ... 239
2610	FLAG 240 ... 255

16 Combined Flags

2622	FLAG 0 ... 15
2623	FLAG 16 ... 31
2624	FLAG 32 ... 47
2625	FLAG 48 ... 63
2626	FLAG 64 ... 79
2627	FLAG 80 ... 95
2628	FLAG 96 ... 111
2629	FLAG 112 ... 127
2630	FLAG 128 ... 143
2631	FLAG 144 ... 159
2632	FLAG 160 ... 175
2633	FLAG 176 ... 191
2634	FLAG 192 ... 207
2635	FLAG 208 ... 223
2636	FLAG 224 ... 239
2637	FLAG 240 ... 255

24 Combined Special Flags

2611	FLAG 2048 ... 2071
2612	FLAG 2072 ... 2095
2613	FLAG 2096 ... 2119
2614	FLAG 2120 ... 2143
2615	FLAG 2144 ... 2167
2616	FLAG 2168 ... 2191
2617	FLAG 2192 ... 2215
2618	FLAG 2216 ... 2239
2619	FLAG 2240 ... 2263
2620	FLAG 2264 ... 2287
2621	FLAG 2288 ... 2303

16 Combined Special Flags

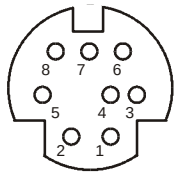
2638	FLAG 2048 ... 2063
2639	FLAG 2064 ... 2079
2640	FLAG 2080 ... 2095
2641	FLAG 2096 ... 2111
2642	FLAG 2112 ... 2127
2643	FLAG 2128 ... 2143
2644	FLAG 2144 ... 2159

2645	FLAG 2160 ... 2175
2646	FLAG 2176 ... 2191
2647	FLAG 2192 ... 2207
2648	FLAG 2208 ... 2223
2649	FLAG 2224 ... 2239
2650	FLAG 2240 ... 2255
2651	FLAG 2256 ... 2271
2652	FLAG 2272 ... 2287
2653	FLAG 2288 ... 2303

System Functions

4	BCD to HEX conversion of a register
5	HEX to BCD conversion of a register
20	Square Root
21	Sine
22	Cosine
23	Tangent
24	Arc Sine
25	Arc Cosine
26	Arc Tangent
27	Exponential Function
28	Natural Logarithm
60	Generate CRC for Modbus RTU
61	Check CRC of Modbus RTU
65	Read register block via Modbus/TCP
66	Write register block via Modbus/TCP
80	Remote Scan: init.
81	Remote Scan: start scan
82	Remote Scan: stop scan
90	Data file: write
91	Data file: append
92	Data file: read
96	Data file: delete
110	Send e-mail
120	Save item to ARP table
121	Remove item from ARP table
122	Change own IP address (dynamically)
140	compare strings
141	find string in string
142	concatenate strings
143	convert register value into string
144	copy string
150	NetCopyList: configure a list
151	NetCopyList: delete a list
152	NetCopyList: send a list

Pin assignment of Mini-DIN connector SER1 and SER2



Pin	Signal	Function
1	RDA	RS422; receive data inverted
2	GND	Ground
3	RDB	RS422; receive data not inverted
4	RxD	RS232; receive data
5	SDB	RS422; transmit data not inverted
6	DC 24 V	Power supply for HMI
7	SDA	RS422; transmit data inverted
8	TxD	RS232; transmit data