

Machine Id	Machine ID	unsigned short	R	15 or 25	40001
<b>Hardware/Firmware Version</b>	Hardware (MSB) and Firmware (LSB) Revision	unsigned short	R		40002
<b>Address</b>	Modbus address	unsigned short	R/W		40003
<b>Delay</b>	Machine answer delay (in characters)	unsigned short	R/W		40004
<b>Baudrate</b>	0 → 1200 1 → 2400 2 → 4800 3 → 9600 4 → 19200 5 → 38400 6 → 57600 7 → 115200	unsigned short	R/W	3	40005
<b>Parity</b>	Not used (always none)	unsigned short	R/W	0	40006
<b>Flag Measurement</b>	Bit 0: Ah Saving 0 → Ah disabled 1 → Ah enabled  Bit 1..2: Measurement Channel 0 → Input 1A/5A 1 → Input 20 mA/100 mA 2 → Input 1 V 3 → Input 10 V  Bit 3: RTD measurement 0 → 2 wire RTD 1 → 3 wire RTD  Bit 4: Output Type 0 → Voltage 0-10 V 1 → Current 0-20 mA  Bit 5..6: Output measurement retransmitted 0 → IRMS 1 → IAC 2 → IDC 3 → Temperature  Bit 7: FFT representation 0 → Absolute 1 → Relative to the I 1 value  Bit 8: THD calculation 0 → Only AC components 1 → Including DC components  Bit 9..10: Temperature sensor 0 → PT100 1 → NTC 10 KΩ 2 → NTC 100 KΩ 3 → NTC Steinhart-Hart  Bit 11..12: Measurement type 0 → Float 1 → Float Swapped 2 → Hundredth (Float * 100) 3 → Hundredth swapped (Float * 100 SW)  Bit 13: Integrator condition 0 → Integrator disabled 1 → Integrator enabled (Rogowski input)  Bit 14: Output switch initial condition 0 → Closed initial condition	unsigned short	R/W	16408 (Ah Disabled, Input 1a 5a, Rtd 3 W, Current 0..20mA, I Rms Out, FFT Representation Absolute, Only Ac Components, Pt100, Float Type, Integrator Disabled, Open Init Cond)	40007
<b>Led Settings</b>	Set the yellow led (COMM LED) according to the corresponding bit set: Bit: 0 → Fail Eeprom 1 → Input Under-range 2 → Input Over-range 3 → Output Under-range 4 → Output Over-range 5 → RTD Out of the range 6 → RTD Third Wire error	unsigned short	R/W	RTD Third Wire error	40008
<b>Transducer Ratio</b>	If input 1A/5A, 20mA/100 mA → Current transformer ratio M/N (Ex: TA ratio = 600:5 → transducer ratio = 120; TA ratio = 1000:1 → transducer ratio = 1000) If input 1V, 10V → 1/Sensitivity [V/A] (Ex: Sensitivity = 100mV/1KA → transducer ratio = 10000; Sensitivity = 4V/400A → transducer ratio = 100)	float (LSW first)	R/W	1	40009
<b>Minimum Current Ripple</b>	Minimum threshold under which the instrument reads 0 independent from the input value	float (LSW first)	R/W	0	40011
<b>Dc Filter</b>	Number of tenth seconds for I RMS value in DC	unsigned short	R/W	10	40013
<b>Ac Filter</b>	Number of zero crossings for I RMS value in AC	unsigned short	R/W	50	40014
<b>Seconds For Mean Rms</b>	Register in seconds (0..30) for RMS average	unsigned short	R/W	0	40015
<b>Seconds For Max Rms</b>	Seconds 1..30 for MAX RMS value. If the register is 0, then the absolute MAX RMS is given	unsigned short	R/W	0	40016
<b>Seconds For Min Rms</b>	Seconds 1..30 for min RMS value. If the register is 0, then the absolute min RMS is given	unsigned short	R/W	0	40017
<b>Seconds For Mean Dc</b>	Register in seconds (0..30) for DC average	unsigned short	R/W	0	40018
<b>Seconds For Max Dc</b>	Seconds 1..30 for MAX DC value. If the register is 0, then the absolute MAX DC is given	unsigned short	R/W	0	40019
<b>Seconds For Min Dc</b>	Seconds 1..30 for min DC value. If the register is 0, then the absolute min DC is given	unsigned short	R/W	0	40020
<b>Seconds For Mean Ac</b>	Register in seconds (0..30) for AC average	unsigned short	R/W	0	40021
<b>Seconds For Max Ac</b>	Seconds 1..30 for MAX AC value. If the register is 0, then the absolute MAX AC is given	unsigned short	R/W	0	40022
<b>Seconds For Min Ac</b>	Seconds 1..30 for min AC value. If the register is 0, then the absolute min AC is given	unsigned short	R/W	0	40023
<b>Alarm Register Start Address</b>	Float value Starting address for alarm (40149 I RMS, 40151 I DC, 40153 I AC, ecc)	unsigned short	R/W	40149	40024
<b>I Start</b>	Current (in A)/temperature (in °C) (see Flag Measurement) which corresponds to Out start	float (LSW first)	R/W	0	40025
<b>Out Start</b>	Output value (in mV o in uA) of the chosen output corresponding to I start	unsigned short	R/W	4000	40027
<b>I Stop</b>	Current (in A)/temperature (in °C) (see Flag Measurement) which corresponds to Out stop	float (LSW first)	R/W	5	40029
<b>Out Stop</b>	Output value (in mV o in uA) of the chosen output corresponding to I stop	unsigned short	R/W	20000	40031
<b>Steinhart Hart A</b>	Coeff Steinhart-Hart A	float (LSW first)	R/W	0	40033
<b>Steinhart Hart B</b>	Coeff Steinhart-Hart B	float (LSW first)	R/W	0	40035
<b>Steinhart Hart C</b>	Coeff Steinhart-Hart C	float (LSW first)	R/W	0	40037
<b>Alarm Trip Value</b>	Alarm Threshold	float (LSW first)	R/W	0	40039
<b>Alarm Hysteresis</b>	Alarm Hysteresis	float (LSW first)	R/W	1	40041

	bit 0: flash settings error; Bit 1: flash calibration error; bit 2: Current Over Range; bit 3: Current Under Range; Bit 4: don't care; Bit 5: RTD Open or broken; bit 6: Current Zero crossing detecting; Bit 7: Switch open; Bit 8: RTD third wire error (Resistance > 20 Ω); Bit 9: RTD out of the range (-200 °C .. + 600 °C) bit 10: Ah storing error; Bit 11: Analog Output over range; bit 12: don't care; Bit 13: Alarm detection; bit 14: Analog Output under range; Bit 15: don't care;		R		
<b>Status</b>		unsigned short			40147
<b>V I Out</b>	Voltage or current output (in mV o mA)	signed short	R		40148
<b>I Rms</b>	RMS Value [A]	float (LSW first)	R		40149
<b>I Dc</b>	DC value [A]	float (LSW first)	R		40151
<b>I Ac</b>	AC value [A]	float (LSW first)	R		40153
<b>Frequency</b>	Frequency [Hz]	float (LSW first)	R		40155
<b>Crest Factor</b>	Crest Factor	float (LSW first)	R		40157
<b>Thd</b>	Total Harmonic Distortion	float (LSW first)	R		40159
<b>I 0 Rms</b>	DC Harmonic	float (LSW first)	R		40161
<b>I 1 Rms</b>	1st Harmonic	float (LSW first)	R		40163
<b>I 2 Rms</b>	2nd Harmonic	float (LSW first)	R		40165
<b>I 3 Rms</b>	3rd Harmonic	float (LSW first)	R		40167
<b>I 4 Rms</b>	4th Harmonic	float (LSW first)	R		40169
<b>I 5 Rms</b>	5th Harmonic	float (LSW first)	R		40171
<b>I 6 Rms</b>	6th Harmonic	float (LSW first)	R		40173
<b>I 7 Rms</b>	7th Harmonic	float (LSW first)	R		40175
<b>I 8 Rms</b>	8th Harmonic	float (LSW first)	R		40177
<b>I 9 Rms</b>	9th Harmonic	float (LSW first)	R		40179
<b>I 10 Rms</b>	10th Harmonic	float (LSW first)	R		40181
<b>I 11 Rms</b>	11th Harmonic	float (LSW first)	R		40183
<b>I 12 Rms</b>	12th Harmonic	float (LSW first)	R		40185
<b>I 13 Rms</b>	13th Harmonic	float (LSW first)	R		40187
<b>I 14 Rms</b>	14th Harmonic	float (LSW first)	R		40189
<b>I 15 Rms</b>	15th Harmonic	float (LSW first)	R		40191
<b>I 16 Rms</b>	16th Harmonic	float (LSW first)	R		40193
<b>I 17 Rms</b>	17th Harmonic	float (LSW first)	R		40195
<b>I 18 Rms</b>	18th Harmonic	float (LSW first)	R		40197
<b>I 19 Rms</b>	19th Harmonic	float (LSW first)	R		40199
<b>I 20 Rms</b>	20th Harmonic	float (LSW first)	R		40201
<b>I 21 Rms</b>	21st Harmonic	float (LSW first)	R		40203
<b>I 22 Rms</b>	22nd Harmonic	float (LSW first)	R		40205
<b>I 23 Rms</b>	23rd Harmonic	float (LSW first)	R		40207
<b>I 24 Rms</b>	24th Harmonic	float (LSW first)	R		40209
<b>I 25 Rms</b>	25th Harmonic	float (LSW first)	R		40211
<b>I 26 Rms</b>	26th Harmonic	float (LSW first)	R		40213
<b>I 27 Rms</b>	27th Harmonic	float (LSW first)	R		40215
<b>I 28 Rms</b>	28th Harmonic	float (LSW first)	R		40217
<b>I 29 Rms</b>	29th Harmonic	float (LSW first)	R		40219
<b>I 30 Rms</b>	30th Harmonic	float (LSW first)	R		40221
<b>I 31 Rms</b>	31st Harmonic	float (LSW first)	R		40223
<b>I 32 Rms</b>	32nd Harmonic	float (LSW first)	R		40225
<b>I 33 Rms</b>	33rd Harmonic	float (LSW first)	R		40227
<b>I 34 Rms</b>	34th Harmonic	float (LSW first)	R		40229
<b>I 35 Rms</b>	35th Harmonic	float (LSW first)	R		40231
<b>I 36 Rms</b>	36th Harmonic	float (LSW first)	R		40233
<b>I 37 Rms</b>	37th Harmonic	float (LSW first)	R		40235
<b>I 38 Rms</b>	38th Harmonic	float (LSW first)	R		40237
<b>I 39 Rms</b>	39th Harmonic	float (LSW first)	R		40239
<b>I 40 Rms</b>	40th Harmonic	float (LSW first)	R		40241
<b>I 41 Rms</b>	41st Harmonic	float (LSW first)	R		40243
<b>I 42 Rms</b>	42nd Harmonic	float (LSW first)	R		40245
<b>I 43 Rms</b>	43rd Harmonic	float (LSW first)	R		40247
<b>I 44 Rms</b>	44th Harmonic	float (LSW first)	R		40249
<b>I 45 Rms</b>	45th Harmonic	float (LSW first)	R		40251
<b>I 46 Rms</b>	46th Harmonic	float (LSW first)	R		40253
<b>I 47 Rms</b>	47th Harmonic	float (LSW first)	R		40255
<b>I 48 Rms</b>	48th Harmonic	float (LSW first)	R		40257
<b>I 49 Rms</b>	49th Harmonic	float (LSW first)	R		40259
<b>I 50 Rms</b>	50th Harmonic	float (LSW first)	R		40261
<b>I 51 Rms</b>	51st Harmonic	float (LSW first)	R		40263
<b>I 52 Rms</b>	52nd Harmonic	float (LSW first)	R		40265
<b>I 53 Rms</b>	53rd Harmonic	float (LSW first)	R		40267
<b>I 54 Rms</b>	54th Harmonic	float (LSW first)	R		40269
<b>I 55 Rms</b>	55th Harmonic	float (LSW first)	R		40271
<b>I 56 Rms</b>	56th Harmonic	float (LSW first)	R		40273
<b>I 57 Rms</b>	57th Harmonic	float (LSW first)	R		40275
<b>I 58 Rms</b>	58th Harmonic	float (LSW first)	R		40277
<b>I 59 Rms</b>	59th Harmonic	float (LSW first)	R		40279
<b>I 60 Rms</b>	60th Harmonic	float (LSW first)	R		40281
<b>I 61 Rms</b>	61st Harmonic	float (LSW first)	R		40283
<b>I 62 Rms</b>	62nd Harmonic	float (LSW first)	R		40285
<b>I 63 Rms</b>	63rd Harmonic	float (LSW first)	R		40287
<b>Internal Temperature</b>	Internal Temperature [°C]	float (LSW first)	R		40289
<b>Rtd Temperature</b>	RTD Temperature [°C]	float (LSW first)	R		40291
<b>Rtd Resistance</b>	RTD Resistance [Ω]	float (LSW first)	R		40293
<b>Rtd 3rd Wire Resistance</b>	Third wire Resistance [Ω]	float (LSW first)	R		40295
<b>Ntc Resistance</b>	NTC parallel resistance [Ω]	float (LSW first)	R		40297
<b>I Rms Mean</b>	RMS average [A] over "seconds for mean RMS"	float (LSW first)	R		40299
<b>I Rms Max</b>	MAX RMS [A] over last "seconds for MAX RMS"	float (LSW first)	R		40301
<b>I Rms Min</b>	Min RMS [A] over last "seconds for min RMS"	float (LSW first)	R		40303
<b>I Dc Mean</b>	DC average [A] over "seconds for mean DC"	float (LSW first)	R		40305
<b>I Dc Max</b>	MAX DC [A] over last "seconds for MAX DC"	float (LSW first)	R		40307
<b>I Dc Min</b>	min DC [A] over last "seconds for min DC"	float (LSW first)	R		40309
<b>I Ac Mean</b>	AC average [A] over "seconds for mean AC"	float (LSW first)	R		40311
<b>I Ac Max</b>	MAX AC [A] over last "seconds for MAX AC"	float (LSW first)	R		40313
<b>I Ac Min</b>	min AC [A] over last "seconds for min AC"	float (LSW first)	R		40315

<b>Ah I Rms</b>	Overall Ah for RMS value. Resettable via Command. Optionally storable in flash	float (LSW first)	R		<b>40317</b>
<b>Ah I Dc</b>	Overall Ah for DC value. Resettable via Command. Optionally storable in flash	float (LSW first)	R		<b>40319</b>
<b>Ah I Ac</b>	Overall Ah for AC value. Resettable via Command. Optionally storable in flash	float (LSW first)	R		<b>40321</b>
<b>Ah Storage Count</b>	Number of Ah flash savings (every 20 seconds)	unsigned long	R		<b>40323</b>
<b>I Peak</b>	<b>Current peak</b>	float (LSW first)	R/W		<b>40325</b>
	Flash settings save command = 0xC1C0; Reset command = 0xC1A0; Load Ah command = 0xBABA (Ah to load must be written in Command_aux); Load Positive Ah command = 0xBABB (positive Ah to load must be written in Command_aux); Load Negative Ah command = 0xBABC (negative Ah to load must be written in Command_aux); Close Switch command = 0xDAAA; Open Switch command = 0xDAAB;		R/W		
<b>Command</b>		unsigned short			<b>40328</b>
<b>Command Aux</b>	Auxiliary parameter command	float (LSW first)	R/W		<b>40329</b>