## Modbus-RTU Protocol Applicable to AD2015E, TDA-08A

## 1. Data frame format:

8-bit data,

1 stop bit, No validation (default)

Baud rate: 9600 (default),

Slave address: 1

Read command 03H sending format

byte	XX	function code	XX	XX	XX	XX	CR
definition	slave address	103H	Start address high stage (H)	Start address low stage (L)	Number of registers high stage (H)	Number of registers low stage (L)	che (I

Read command 03H response format

byte	XX	function code	XX	XX		XX	CR
definition	Slaves address	03H	byte number	number data 1	number data 2n-1	number data n	che

Write command 10H sending format

byte	XX	function code	XX	XX	XX	XX	XX	
definition	slave address	10Н	Start addresshig h stage (H)	Start addresslow stage (L)	Number of registers high stage (H)	Number of registers low stage (L)	byte number	number data 1 number data n

Write command 10H response format

byte	XX	function code	XX	XX	XX	XX
Definition	Slaves address	10Н	Start addresshigh stage (H)	Start addresslow stage (L)	registers high	Number of registers low stage (L)

## 2. Register address table

Category	Name	Address	Type	Description
	slave address	40001 (000)	16 Bit Unsigned int number	Serial communication address; range 1~247 (need to be unlocked)
	Baud rate setting	40002 (001)	16 Bit Unsigned int number	(Single Bit bps): (need to be unlocked)  0x00:1200 0x01:2400 0x02:4800 0x03:9600 (default) 0x04:19200 0x05:38400  0x06:57600 0x07:115200
Communication parameters number	number data frame format	40003 (002)	16 Bit Unsigned int number	(Modification requires unlocking)  0x03:8 Bit number data Bit, even check, 1 Bit stop bit 0x04:8 Bit number data Bit, odd check, 1 Bit stop Bit 0x05:8 Bit number data Bit, no check, 1 Bit stop Bit (default)  0x06:8 Bit number data Bit, no check, 2 Bit stop bit
	protocol type	40004 (003)	16 Bit Unsigned int number	0x00: Free protocol 0x01: Modbus RTU (default) 0x02: ASCII protocol (modification requires unlocking
	Command response delay	40005 (004)	16 Bit Unsigned int number	When used for RS485 communication, some hosts swit between sending and receiving slowly, resulting in the of response instructions.  Single Bit ms; range: 0~255; 0 means no delay
	lock/unlock System	40006 (005)	16 Bit Unsigned int	Write 0x5AA5 to unlock. After unlocking, can modify it if need to unlock it.
	Firmware version	40007 (006)	16 Bit Unsigned int number	Module internal software version
	Restore factory settings set	40008 (007)	16 Bit Unsigned int number	Restore to factory default parameter number; Write 0x55 to start initialization (recovery requires unlocking)

	module status	40009 (008)	16 Bit Unsigned int number	Bit15Bit12: all 0 Bit11:0 Peak not detected/1 Detected Bit10:0 Valley value not detected/1 detected Bit9:0 normal/overload Bit8:0 regular/1 smart sensor Bit7:0 non-zero/1 zero point Bit6:0 normal/1 overflow Bit5:0 stable/1 unstable Bit4:0 has not been cleared at power on/1 has been clea at power on. Bit3:0 positive sign/1 negative sign Bit2-0: Small number, click Bit to set
	Register high and low bit order	40010 (009)	16 Bit Unsigned int number	Used to set the order of the high and low bits of the 32-register; 0x00: High Bit first, low Bit last 0x01: Low bit first, high bit last
	AD conversion speed	40033 (032)	16 Bit Unsigned int number	0x00:10 0x01:40 0x02:640 0x03:1280
Measurement stability parameter number	Filtering type	40035 (034)	16 Bit Unsigned int number	Choose the appropriate filtering method based on data different applications.  0x00: Not used  0x01: Average filtering  0x02: Medium Bit value filtering  0x03: First order filtering  0x04: Moving average filter  0x05: Medium Bit value average filter  0x06: Bit value average filtering in sliding  0x07: Average filter + first-order filter  0x08: Medium Bit value filter + first-order filter  0x09: Moving average filter + first-order filter  0x0A: Medium Bit value average filter + first-order filter

	Filter strength	40036 (035)	16 Bit Unsigned int number	Range: 0~50, the larger the number, the stronger the filtering
Weight Calibration	Zero point calibration	40039 (038)	32 Bit signed integer number	Write 0 to mark the 0 point. After marking the 0 point, you will enter the gain calibration.
	Gain calibration	40043 (042)	32 Bit signed integer number	After calibrating at 0 point, put the weight on and write the actual weight of the we
Code	Real-time AD value	40045 (044)	32 Bit signed integer number	AD converted filtered original code
Calibration without weights	Sensor sensitivity	40047 (046)	32 Bit Unsigned int number	For weight-free calibration, see the sensitivity value on sensor label for details. There is no need to enter a small number point when setting.  For example, if the sensitivity is 1.95582mv/V,  Write 19558 (retain 4 Bits after the small number point
	Sensor range	40049 (048)	32 Bit Unsigned int number	The measuring range of the sensor can be calibrated without using weights.  If the sensor range is 10kg, to be accurate to 1g, enter
	Real-time weight/actual	40081 (080)	32 Bit signed integer number	Actual weight/force value, negative number uses standa complement method
	Net weight	40083 (082)	32 Bit signed integer number	The value after gross weight minus tare weight; negativ number, sampling standard complement method
	Tare weight	40085 (084)	32 Bit signed integer number	Tare value; range: -8000000 ~ 8000000; write 0x7fffffff to execute
	Full range	40087 (086)	32 Bit signed integer number	Set the maximum range value of the Weighing / Force measuring range

				0x00: 0.0001
				0x01: 0.0002
				0x02: 0.0005
				0x03: 0.001
				0x04: 0.002
				0x05: 0.005
				0x06: 0.01
				0x07: 0.02
	Gain value	40089	16 Bit Unsigned	0x08: 0.05
		(088)	int number	0x09: 0.1
				0x0A: 0.2
				0x0B: 0.5
				0x0C: 1 0x0D: 2
				0x0E: 5
				0x0F: 10
				0x10: 20
				0x11: 50
			16 Bit Unsigned int number	Clear range;
	Manual zero range	40094 (093)		A single bit is the percentage of full scale;
Display Value related	surround			Manually clear after writing 0
parameter number	Surround			Function is invalid
	Clear	40095	16 Bit Unsigned int	Write 1 to clear
	Cicui	(094)	number	
	Start to zero range	40096	16 Bit Unsigned int	Set the range of power-on clearing; single bit is the
	"surround"	(095)	number	percentage of full scale; after writing 0 Not cleared after power on
	Auto zero Bit			Parameter number range: 0~10000;
	followed by	40097	16 Bit Unsigned int number	Single Bit: 0.1d; when set to 0, zero Bit is turned off.
	tracking range	(096)	number	tracking function
	Auto zero Bit	40098	16 Bit Unsigned int	range : 1~50:
	followed by	(097)	number	single Bit: 0.1s
	tracking time	(0)1)	Hamber	5111510 DIV . 0.115

	Stable range of judgment	40099 (098)	16 Bit Unsigned int number	Parameter number range: 0~10000; single Bit: d; when to 0, the stability judgment function is turned off (Supported by firmware version V1.1 or above)
	Stable time	40100 (099)	16 Bit Unsigned int number	\ 11 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Creep Tracking Fan "surround"	40103 (102)	16 Bit Unsigned int number	Parameter number range: 0~1000; single Bit: 0.1d; who set to 0, creep tracking is turned off Tracking function (supported by firmware version V1.4 above)
	When creep tracking between	40104 (103)	16 Bit Unsigned int number	range: 1~10000; single Bit: 0.1s (supported by firmwar version V1.4 or above)
	Weight single bit	40105 (104)	16 Bit Unsigned int number	0 None 1 g 2 kg 3 t 4 N
	Clear peaks and valleys	40291 (290)	16 Bit Unsigned int number	Write 1 to clear peak and valley values
	Peak value	40292 (291)	32 Bit signed integer number	Peak value, negative number adopts standard complemmethod
	Trough value	40294 (293)	32 Bit signed integer number	Valley value, negative number adopts standard compler method
	Peak detection enable mode	40296 (295)	16 Bit Unsigned int number	<ul><li>0: Turn off peak detection;</li><li>1: Peak detection is started after the force value exceed the peak threshold;</li><li>2: Peak detection is started after being triggered external and meeting the peak threshold</li></ul>
Peak and Valley	Bottom value detection enable mode	40297 (296)	16 Bit Unsigned int number	<ul><li>0: Turn off valley detection;</li><li>1: Start valley detection after the force value exceeds th valley threshold;</li><li>2: Start valley detection after being triggered externally and meeting the valley threshold</li></ul>

		40000	22.51	
	peak threshold	40298	32 Bit signed	Peak detection is started only after the force value exc
	F	(297)	integer number	the peak threshold.
	valley threshold	40300	32 Bit signed	Valley detection is started only after the force value
	variey un esticia	(299)	integer number	exceeds the valley threshold.
	Peak hysteresis	40302	32 Bit signed	After the force value falls beyond the peak hysteresis
	1 cak flysteresis	(301)	integer number	value, the current peak value is latched.
	Trough retracement	40304	32 Bit signed	After the force value falls beyond the valley return
	Trough retracement	(303)	integer number	difference value, the current valley value is latched.
	Peak to valley interval time	40306 (305)		The minimum interval time for peak and valley value measurement. Only when the minimum interval time exceeded, the peak and valley value measurement will continue to be started (peak value and valley value are the same time); range 0~255
	Simulation type	40131 (130)	16 Bit Unsigned int number	Set analog signal type $0x00: 0\sim20\text{mA}$ current $0x01: 4\sim20\text{mA}$ current $0x02: -10V\sim10V$ voltage $0x03: 0\sim5V$ voltage $0x04: 0\sim10V$ voltage $0x05: -5V\sim5V$ voltage
	output number data type	40132 (131)	16 Bit Unsigned int number	Set output number data type 0x00: measured value; 0x01: Gross weight value; 0x02:Net weight value"
	The first point	40133	16 Bit signed	Dance : 10000 20000 1- Dit is 11 ( 11)
	Analog quantity	(132)	integer number	Range :-10000~20000, single Bit is millivolt (millia
Simulation parameter number	The first point of simulation Quantity correction	40134 (133)	16 Bit signed integer number	Range :-1000~1000,single Bit is millivolts (milliamp
(Only modules with analog functions	The first point Weight value	40135 (134)	32 Bit signed integer number	The first weight; range: negative full scale ~ full scal
support)	Second point Analog quantity	40137 (136)	16 Bit signed integer number	Range:-10000~20000, single Bit is millivolt (millia

		Second point simulation Quantity correction	40138 (137)	16 Bit signed integer number	Range :-1000~1000,single Bit is millivolts (milliamps)
		Second point Weight value	40139 (138)	32 Bit signed integer number	Second point weight; range: negative full scale ~ full sc
		The third point Analog quantity	40141 (140)	16 Bit signed integer number	Range: -10000~20000, single Bit is millivolt (millian
		The third point of simulation quantity correction	40142 (141)	16 Bit signed integer number	Range : -1000~1000, single Bit is millivolts (milliamps)
		The third point Weight value	40143 (142)	32 Bit signed integer number	The third point is weight; range: negative full scale ~ ft scale
		Read input port n(n=0~19)	40201 (200) 40202 (201)	16 Bit Unsigned int number	Read operation: read the status of the corresponding inport; write operation: ignore; up to 20 input ports
		Read and writeoutput port n(n=0~19)	40221 (220) 40222 (221) 40223 (222)	16 Bit Unsigned int number	Read operation: read the status of the corresponding ou port; write operation: write 0 corresponding The output port is closed. Writing 1 corresponds to the output port opening; a switch output is required. This operation is only valid when the function is set to "Communication Control"; up to 20 output ports
	Switch parameter number	Input port n	40241 (240)	16 Bit Unsigned int	The function definition is as follows; 0x00: Not used 0x01: Cleared 0x02: Peeling 0x03: Cleaning 0x04: Start peak and valley detection 0x05: Clear peak
		function setting (n = 0~19) 40242 (241)		number	valley values 0x0A: Start comparator 0 0x0B: Start comparator 1 0x0C: Start comparator 2 0x0D: Start comparator 3 0x0E: Start comparator 4 0x0F: Start comparator 5 (V2 firmware and above)

		40261 (260)	16 Bit Unsigned int number	The function definition is as follows; 0x00: Communication control 0x01: zero point 0x02: stable
	output port n function setting	40262 (261)		0x03: Overload 0x04; Alarm 0x0A: Comparator 0 comparison result 0x0B: Comparator 1 comparison result 0x0C: Comparator 2 comparison result
	(n=0~19)	40263 (262)		0x0D: Comparator 2 comparison result 0x0E: Comparator 4 comparison result 0x0F: Comparator 5 comparison result
	Input port Filter time	40281 (280)	16 Bit Unsigned int number	Input signal filtering time; range: 0~255
	Clear peaks and valleys	40291 (290)	16 Bit Unsigned int number	Write 1 to clear peak and valley values
	peak	40292 (291)	32 Bit signed integer number	Peak value, negative number adopts standard complemmethod
	Trough value	40294 (293)	32 Bit signed integer number	Valley value, negative number adopts standard compler method
	Peak detection enable mode	40296 (295)	16 Bit Unsigned int number	<ul><li>0: Turn off peak detection;</li><li>1: Peak detection is started after the force value exceed the peak threshold;</li><li>2: Peak detection is started after being triggered external and meeting the peak threshold</li></ul>
Peak and Valley	Bottom value detection enable mode	40297 (296)	16 Bit Unsigned int number	<ul><li>0: Turn off valley detection;</li><li>1: Start valley detection after the force value exceeds the valley threshold;</li><li>2: Start valley detection after being triggered externally and meeting the valley threshold</li></ul>
	peak threshold	40298 (297)	32 Bit signed integer number	Peak detection is started only after the force value exce the peak threshold.
	valley threshold	40300 (299)	32 Bit signed integer number	Valley detection is started only after the force value exceeds the valley threshold.

	Peak hysteresis	40302	32 Bit signed	After the force value falls beyond the peak hysteresis
	1 cak flysteresis	(301)	integer number	value, the current peak value is latched.
	Trough retracement	40304	32 Bit signed	After the force value falls beyond the valley return
	Trough retracement	(303)	integer number	difference value, the current valley value is latched.
				The minimum interval time for peak and valley value
				measurement. Only when the minimum interval time
	Peak to valley	40306	16 Bit Unsigned int	exceeded, the peak and valley value measurement wil
	interval time	(305)	number	continue to be started (peak value and valley value are
				the same time);
				range 0~255
	Commonator	40311	16 Dit Ungionad int	0: Comparator stops;
	Comparator 0 Enable mode		16 Bit Unsigned int number	1: Start the comparator upon power-on;
	Enable mode	(310)	number	2: External signal start and stop comparator
				The comparator judgment method is as follows;
	Campanatan	40312 (311)	16 Bit Unsigned int number	0x00: Force value > upper limit 0x01: Middle limit <
	1			value ≤ upper limit
				$0x02$ : Lower limit < force value $\leq$ middle limit
				$0x03$ : Force value $\leq$ lower limit
Comparator parameter				The source of the comparator number data is as follow
number				0x00: Measured value
(Group)	Comparator 0	40313	16 Bit Unsigned int	0x01: Gross weight;
(Group)	1	(312)	number	0x02: Net weight;
		(312)		0x03: peak value;
				0x04: Valley value;
				0x05: Peak-Trough
	Comparator 0	40314	16 Bit Unsigned int	
	judgment	(313)	number	Comparator judgment delay time; single Bit 0.1 secon
	"off delay"		number	
	Upper limit	40315	32 Bit signed	Set the upper limit value
	comparison value 0	(314)	integer number	Set the upper minit value
	mid-range	40317	32 Bit signed	
	comparison value	(316)	integer number	Set the middle limit value
	0	(310)	micger number	

Lower limit comparison value 0	40319 (318)	32 Bit signed integer number	Set the lower limit value
Comparator 0 Junction fruit	40321 (320)	16 Bit Unsigned int number	The judgment result of the comparator is stored in this register
Comparator 0 stability judgment	40322 (321)	16 Bit Unsigned int number	Whether to wait until the weight is stable before comparing; 0x00: Do not wait 0x01: Wait for stability (Requires firmware version V4.0 or above and supporte by some products)
Comparator 0 threshold	40323 (322)	32 Bit signed integer number	Comparator threshold, when comparing weights other t peak and valley values, the absolute value of the weight greater than the threshold before starting to compare the output (requires V4.0 firmware version or above and supported by some products)"
Comparator 0 pre Keep	40325 (324)		
Comparator 1 Enable mode	40326 (325)	16 Bit Unsigned int number	0: Comparators stop; 1: Start Comparators upon power-on; 2: External signal starts and stops Comparators
Comparator 1 judgment method	40327 (326)	16 Bit Unsigned int number	Comparators are judged as follows; 0x00: Force value > upper limit 0x01: Middle limit < for value \le upper limit 0x02: Lower limit < force value \le middle limit 0x03: F value \le lower limit 0x04: Force value > upper limit lower limit < force value\le middle limit 0x05: Force value > upper limit Force value\le lower limit 0x06: Force value \le lower limit, middle limit < force value \le upper limit

Comparators 1 number data source	40328 (327)	16 Bit Unsigned int number	Comparators number data source is as follows; 0x00: Measured value 0x01: Gross weight; 0x02: Net weight; 0x03: Peak value; 0x04: Valley value; 0x05: Peak -trough value
Comparators 1 "off delay	40329 (328)	16 Bit Unsigned int number	Comparators determine delay time; single Bit 0.1 seconds
Upper limit comparison value	40330 (329)	32 Bit signed integer number	Set the upper limit value
mid-range comparison value 1	40331 (330)	32 Bit signed integer number	Set the middle limit value
Lower limit comparison value	40332 (331)	32 Bit signed integer number	Set the lower limit value
Comparators 1 knot fruit	40333 (332)	16 Bit Unsigned int number	The judgment results of Comparators are stored in this register
Comparators 1 stable judgment	40334 (333)	16 Bit Unsigned int number	Whether to wait until the weight is stable before comparing;
Comparators 1 threshold	40335 (334)	32 Bit signed integer number	Comparators threshold, when comparing weights other than peak and valley values, the absolute value of the weight is greater than the threshold before starting to compare the output (requires V4.0 firmware version or above and supported by some products)
Comparators 1 pre Keep	40336 (335)		

	Comparators 3 Enable mode	40337 (336)	16 Bit Unsigned int number	0: Comparators stop; 1: Start Comparators upon power-on; 2: External signal starts and stops Comparators
	Comparators 3 Judgment methods	40338 (337)	16 Bit Unsigned int number	Comparators are judged as follows;  0x00: Force value > upper limit  0x01: middle limit < force value \le upper limit  0x02: lower limit < force value \le middle limit  0x03: Force value \le lower limit  0x04: Force value > upper limit lower limit < force  value\le middle limit  0x05: Force value > upper limit Force value\le lower lim  0x06: Force value \le lower limit, middle limit < force value \le upper limit
	Comparators 3 number data source	40339 (338)	16 Bit Unsigned int number	Comparators number data source is as follows; 0x00: Measured value 0x01: Gross weight; 0x02: Net weight; 0x03: peak value; 0x04: Valley value; 0x05: peak-trough value
	Comparators 3	40340	16 Bit Unsigned int	
	"off delay" Upper limit comparison value 3	(339) 40341 (340)	number  32 Bit signed integer number	Set the upper limit value
	mid-range comparison value 3	40342 (341)	32 Bit signed integer number	Set the middle limit value
	Lower limit comparison value	40343 (342)	32 Bit signed integer number	Set the lower limit value
	Comparators 3 knot fruit	40344 (343)	16 Bit Unsigned int number	The judgment results of Comparators are stored in this register

Comparators 3 stable judgment	40345 (344)	16 Bit Unsigned int number	Whether to wait until the weight is stable before comparing; 0x00: Don't wait 0x01: Waiting for stability (Requires firmware version V4.0 or above and supporte by some products)
Comparators 3 40346 threshold (345)	32 Bit signed integer number	Comparators threshold, When comparing weights other than peak to valley comparisons, The output comparison starts only when the absolute va of the weight is greater than threshold. (Requires firmware version V4.0 or above and supportably some products)	
Comparators 3 pre Keep	40347 (346)	1	
Lower limit comparison value 3	40348 (347)	32 Bit signed integer number	Set the lower limit value
Comparators 3 knot fruit	40349 (348)	16 Bit Unsigned int number	The judgment results of Comparators are stored in this register
Comparator 3 stability judgment	40397 (396)	16 Bit Unsigned int number	Whether to wait until the weight is stable before comparing; 0x00: Don't wait 0x01: Waiting for stability (Requires firmware version V4.0 or above and supporte by some products)
Comparator 3 Threshold	40398 (397)	32 Bit signed integer number	Comparator threshold, when comparing weights other t peak-to-valley comparison, the absolute value of the weight is greater than the threshold before starting to compare the output (requires V4.0 firmware version or above and supported by some products)
Comparator 3 Pre Keep	40400 (399)		

RC H	CRC L
eck	check
H)	(L)

CH	CRCL
ck (H)	check (L)

CRCH	CRCL
check (H)	check (L)

CRCH	CRCL
check (H)	check (L)

	Attributes	Defaults
;	Read/Writ e	0x01
	Read/Writ e	0x03
	Read/Writ e	0x05
;)	Read/Writ e	0x01
ich loss	Read/Writ e	0x00
	just write	
	read only	
	just write	

ıred	read only	
bit	Read/Writ e	0x00
	Read/Writ e	0x02
for	Read/Writ e	0x09

Read/Writ e	0x05
Read/Writ e	0x00
Read/Writ e	
Read-only	
Read/Writ e	20000
Read/Writ e	10000
Read-only	
Read-only	
Read and write	0
Read/Writ e	10000
	Read/Writ e Read/Writ e Read-only Read/Writ e Read-only Read-only Read-only Read-only Read-only Read-only Read-only

Read/Writ e	0x06
Read/Writ e	0
write only	
Read/Writ e	0
Read/Writ e	0
Read/Writ e	10

Read/Writ e	0
Read/Writ e	10
Read/Writ e	0
Read/Writ e	100
Read/Writ e	0
write only	
Read-only	
Read-only	
Read/Writ e	0x00
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	Read/Writ e Read/Writ e Read/Writ e Read/Writ e write only Read-only Read-only Read-Writ e Read/Writ e

eds	Read/Writ e	0x00
	Read/Writ e	0x00
	Read/Writ e	0x00
	Read/Writ e	0x00
at	Read/Writ e	0x32
	Read/Writ e	0x01
	Read/Writ e	0x01
p);	Read/Writ e	0
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	Read/Writ e	0
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			0x00
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	Read/Writ e	0x00
	Read/Writ e	0x00
at	Read/Writ e	0x32
	Read/Writ e	0x00
orce	Read/Writ e	0x00
;;	Read/Writ e	0x01
s	Read/Writ e	0x00
	Read/Writ e	0x00
	Read/Writ e	0x00

Read/Writ e	0x00
Read-only	
Read/Writ e	0x00
Read/Writ e	0x00
Read/Writ e	0x00
Read/Writ e	0x00
	Read/Writ e  Read/Writ e  Read/Writ e  Read/Writ

	Read/Writ e	0x01
	Read/Writ e	0x00
	Read-only	
ed	Read/Writ e	0x00
	Read/Writ e	0x00

	Read/Writ e	0x00
it alue	Read/Writ e	0x00
	Read/Writ e	0x01
	Read/Writ e	0x00
	Read-only	

Read/Writ e	0x00
Read/Writ e	0x00
Read/Writ e	0x00
Read-only	
Read/Writ e	0x00
Read/Writ e	0x00
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