

# LA MODBUS USER INSTRUCTIONS

1. The instrument RS485 communication BPS is fixed at 9600 bits/s, start bit=1, data bit=8, stop bit=1, starting and ending time >5ms
2. The format of the data reading and writing is the same as standard Modbus protocol. Definitions as follows:

Request : (eg. 01 03 00 62 00 02 65 D5)

01	03	0098(0062H)	0002	26069(65D5)
ADD	COM	PV1	Counts	CRC

Response : (eg. 01 03 04 6D 96 49 F3 71 66)

01	03	04	6D96 49F3	7166
ADD	COM	Counts	PV1	CRC

Return Power : 2 WORD

PV1 = 6D96 49F3 = 6D96.49F3H = INT 6D96H+ POINT

49F3H=28054+18931/65536=28054.2888 (49F3H = 18931 6D96H = 28054)

When Max bit is "1", means negative, viz. sign bit.

ED96 bit 15=1 is negative, viz. -6D96H

3. When settings parameters, can read multi-parameters  
Please convert the decimal part from band 10 to 16 in HEX format.  
For example, 100.5, INT 100=0064h, 0.5=0.8000H, therefore 100.5=0064.8000 H
4. Commands:
  - 02H: read digital value I discrete I/O parameters
  - 03H: read holding registers parameters
  - 06H: write single holding register parameter value
  - 10H: write multi holding registers parameters value

5. Communication parameters:  
LA Weighing meter reading and writing parameter

Factory settings	Parameters	Parameter address (HEX)	Data numbers (bytes)	Function	Remarak
	PW1	0098 (62H)	4	1 <sup>st</sup> input measiring value	Read only
90,0	AL1	0000	4	Alarm1 set value	R/W
H: High alarm	AM1	0003	2	Alarm1 mode setting	
10,0	AL2	0004	4	Alarm2 set value	R/W
L: Low alarm	AM2	0007	2	Alarm2 mode setting	R/W
	AL3	0008	4	Alarm3 set value	R/W
	AM3	0011	2	Alarm3 mode setting	R/W
	HY1	0012	4	AL1/AL2/AL3 common hysteresis value	R/W
001	ADD	0015	2	Communication address	R/W
	PVF	0016	4	Offset value	R/W
0,00	USP	0020	4	Adjustment range	R/W
0001	DP	0023	2	Decimal point	R/W
	UHH	0024	4	Max. Weight value	R/W
	TRL	0028	4	Low current output	R/W
	TRH	0032	4	High current output	R/W
000	LCK	0035	2	Password	R/W