ADL200 - Communication Description

Communication protocol

The meters adapt Modbus . Please refer to the relevant standards for more information. The multi-tariff data mean nothing when multi-tariff function (F) is not applied.

MODBUS Address list

Address	Variable	Length	Attributes	Note
0000H	Current combined total active energy	4	R	unit：0.01kWh
0002H	Current combined spike active energy	4	R	
0004H	Current combined peak active energy	4	R	
0006H	Current combined flat active energy	4	R	
0008H	Current combined valley active energy	4	R	
000AH	Code	2	R	
000BH	Voltage	2	R	unit：0.1V
000CH	Current	2	R	unit：0.01A
000DH	Active power	2	R	unit：0.001kW
000EH	Reactive power	2	R	unit：0.001kvar
000FH	Apparent power	2	R	unit：0.001kVA
0010H	power factor	2	R	unit：0.001
0011H	Frequency	2	R	unit：0.01Hz
0012H	Year, month	2	R/W	
0013H	Day, hour	2	R/W	
0014H	Minute, second	2	R/W	
0015H	Address	1	R/W	0~254
0015H	Communication baud rate	1	R/W	00:1200 01:2400 02:4800 03:9600 04:19200
0016H	light time	2	R/W	
0017H~ 0021H	Reserve			
0022H	Total active energy of last month	4	R	unit：0.01kWh
0024H	Spike active energy of last month	4	R	
0026H	Peak active energy of last month	4	R	
0028H	Flat active energy of last month	4	R	
002AH	Valley active energy of last month	4	R	
002CH	Total active energy of last 2 month	4	R	

002EH	Spike active energy of last 2 month	4	R	
0030H	Peak active energy of last 2 month	4	R	
0032H	Flat active energy of last 2 month	4	R	
0034H	Valley active energy of last 2 month	4	R	
0036H	Total active energy of last 3 month	4	R	
0038H	Spike active energy of last 3 month	4	R	
003AH	Peak active energy of last 3 month	4	R	
003CH	Flat active energy of last 3 month	4	R	
003EH	Valley active energy of last 3 month	4	R	
0040H~ 0044H	reserve			
0045H	status		R/W	Bit0:0-（EF）, 1-（EEF）; Bit1:0-（Up and down）, 1-（down and Up） Bit3: 0-PQS 1-RMS
0046H~ 0047H	reserve			
0048H	parity	2	R	0000:None 0002:Even
0049H	reserve			
004AH				
004BH				
004CH~ 0067H	reserve			
0068H	Current forward active total energy	4	R	unit：0.01kWh
006AH	Current forward active spike energy	4	R	
006CH	Current forward active peak energy	4	R	
006EH	Current forward active flat energy	4	R	
0070H	Current forward active valley energy	4	R	
0072H	Current reversing active total energy	4	R	
0074H	Current reversing active spike energy	4	R	
0076H	Current reversing Active peak energy	4	R	
0078H	Current reversing active flat energy	4	R	
007AH	Current reversing Active valley energy	4	R	
007C~0 0AFH	reserve			
00B0H	Current total reactive energy	4	R	
00B2H	Current spike reactive energy	4	R	
00B4H	Current peak reactive energy	4	R	
00B6H	Current flat reactive energy	4	R	

00B8H	Current valley reactive energy	4	R	unit：0.01kVarh
00BAH	Current forward reactive total energy	4	R	
00BCH	Current forward reactive spike energy	4	R	
00BEH	Current forward reactive peak energy	4	R	
00C0H	Current forward reactive flat energy	4	R	
00C2H	Current forward reactive valley energy	4	R	
00C4H	Current reversing reactive total energy	4	R	
00C6H	Current reversing reactive spike energy	4	R	
00C8H	Current reversing reactive peak energy	4	R	
00CAH	Current reversing reactive flat energy	4	R	
00CCH	Current reversing reactive valley energy	4	R	
00CEH~ 52FFH	reserve			
5300H	Voltage	4	R	Float
5302H	Current	4	R	
5304H	Active power	4	R	
5306H	Reactive power	4	R	
5308H	Apparent power	4	R	
530AH	power factor	4	R	
530CH	Frequency	4	R	