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XCVMMOD Driver Manual

Circutor CVM-BD-M Modbus RTU Protocol Driver

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XCVMMOD technical specifications

General information

El driver XCVMMOD permite comunicarse con los medidores de energia CIRCUTOR de la serie CVM-BD-M mediante el protocolo Modbus RTU.
Este driver ha sido elaborado de acuerdo al documento interno numero 0049 con fecha 23/10/2001 del Grupo Circutor. Implementa comandos tanto para la lectura y escritura de registros como para la bajada de la memoria del equipo.

Command list

Leer numero de serie del equipo

Description of this command:

Lee un valor tipo long conteniendo el numero de serie del equipo.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

16

Values that are returned:

Value in PointValue (0) = Numero de serie del equipo

Leer version del software del equipo

Description of this command:

Lee una cadena de 6 caracteres conteniendo la version de software del equipo y la entrega como 6 codigos ASCII individuales.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

6

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

17

Values that are returned:

Value in PointValue (0) = Codigo ASCII del primer caracter
Value in PointValue (1) = Codigo ASCII del segundo caracter
Value in PointValue (2) = Codigo ASCII del tercer caracter
Value in PointValue (3) = Codigo ASCII del cuarto caracter
Value in PointValue (4) = Codigo ASCII del quinto caracter
Value in PointValue (5) = Codigo ASCII del sexto caracter

Lectura de variables electricas trifasico instantaneas

Description of this command:

Lee un paquete de 59 mediciones conteniendo las mediciones instantaneas de las variables electricas trifasico.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

59

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Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

0

Values that are returned:

Value in PointValue (0) = Tension fase [V]
Value in PointValue (1) = Corriente [mA]
Value in PointValue (2) = Potencia activa [W]
Value in PointValue (3) = Potencia reactiva inductiva [W]
Value in PointValue (4) = Potencia reactiva capacitiva [W]
Value in PointValue (5) = Factor de potencia [adim]
Value in PointValue (6) = Tension fase [V]
Value in PointValue (7) = Corriente [mA]
Value in PointValue (8) = Potencia activa [W]
Value in PointValue (9) = Potencia reactiva inductiva [W]
Value in PointValue (10) = Potencia reactiva capacitiva [W]
Value in PointValue (11) = Factor de potencia [adim]
Value in PointValue (12) = Tension fase [V]
Value in PointValue (13) = Corriente [mA]
Value in PointValue (14) = Potencia activa [W]
Value in PointValue (15) = Potencia reactiva inductiva [W]
Value in PointValue (16) = Potencia reactiva capacitiva [W]
Value in PointValue (17) = Factor de potencia [adim]
Value in PointValue (18) = Tension promedio [V]
Value in PointValue (19) = Corriente promedio [mA]
Value in PointValue (20) = Potencia activa trifasica [W]
Value in PointValue (21) = Potencia inductiva trifasica [W]
Value in PointValue (22) = Potencia capacitiva trifasica [W]
Value in PointValue (23) = Factor de potencia trifasico [adim]
Value in PointValue (24) = Frecuencia (L1) [Hz]
Value in PointValue (25) = Potencia aparente trifasica [W]
Value in PointValue (26) = Tension linea L1-L2 [V]
Value in PointValue (27) = Tension linea L2-L3 [V]
Value in PointValue (28) = Tension linea L3-L1 [V]
Value in PointValue (29) = Tension promedio compuesta [V]
Value in PointValue (30) = Hora [adim]
Value in PointValue (31) = Energia activa T1 (+) [Wh]
Value in PointValue (32) = Energia reactivainductiva T1 (+) [Wh]
Value in PointValue (33) = Energia reactiva capacitiva T1 (+) [Wh]
Value in PointValue (34) = Maxima demanda T1 [W/VA]
Value in PointValue (35) = Energia activa T1 (-) [Wh]
Value in PointValue (36) = Energia reactiva inductiva T1 (-) [Wh]
Value in PointValue (37) = Energia reactiva capacitiva T1 (-) [Wh]
Value in PointValue (38) = Energia activa T2 (+) [Wh]
Value in PointValue (39) = Energia reactiva inductiva T2 (+) [Wh]
Value in PointValue (40) = Energia reactiva capacitiva T2 (+) [Wh]
Value in PointValue (41) = Maxima demanda T2 [W/VA]
Value in PointValue (42) = Energia activa T2 (-) [Wh]
Value in PointValue (43) = Energia reactiva inductiva T2 (-) [Wh]
Value in PointValue (44) = Energia reactiva capacitiva T2 (-) [Wh]
Value in PointValue (45) = Energia activa T3 (+) [Wh]
Value in PointValue (46) = Energia reactiva inductiva T3 (+) [Wh]
Value in PointValue (47) = Energia reactiva capacitiva T3 (+) [Wh]
Value in PointValue (48) = Maxima demanda T3 [W/VA]
Value in PointValue (49) = Energia activa T3 (-) [Wh]
Value in PointValue (50) = Energia reactiva i nductiva T3 (-) [Wh]
Value in PointValue (51) = Energia reactiva capacitiva T3 (-) [Wh]
Value in PointValue (52) = Intensidad de neutro [mA]
Value in PointValue (53) = %THD V 1 [%]
Value in PointValue (54) = %THD V 2 [%]
Value in PointValue (55) = %THD V 3 [%]
Value in PointValue (56) = %THD I 1 [%]

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Value in PointValue (57) = %THD I 2 [%]

Value in PointValue (58) = %THD I 3 [%]

Lectura de variables electricas trifasico maximas

Description of this command:

Lee un paquete de 59 mediciones conteniendo los maximos de las variables electricas trifasico.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

59

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

1

Values that are returned:

Value in PointValue (0) = Tension fase [V]

Value in PointValue (1) = Corriente [mA]

Value in PointValue (2) = Potencia activa [W]

Value in PointValue (3) = Potencia reactiva inductiva [W]

Value in PointValue (4) = Potencia reactiva capacitiva [W]

Value in PointValue (5) = Factor de potencia [adim]

Value in PointValue (6) = Tension fase [V]

Value in PointValue (7) = Corriente [mA]

Value in PointValue (8) = Potencia activa [W]

Value in PointValue (9) = Potencia reactiva inductiva [W]

Value in PointValue (10) = Potencia reactiva capacitiva [W]

Value in PointValue (11) = Factor de potencia [adim]

Value in PointValue (12) = Tension fase [V]

Value in PointValue (13) = Corriente [mA]

Value in PointValue (14) = Potencia activa [W]

Value in PointValue (15) = Potencia reactiva inductiva [W]

Value in PointValue (16) = Potencia reactiva capacitiva [W]

Value in PointValue (17) = Factor de potencia [adim]

Value in PointValue (18) = Tension promedio [V]

Value in PointValue (19) = Corriente promedio [mA]

Value in PointValue (20) = Potencia activa trifasica [W]

Value in PointValue (21) = Potencia inductiva trifasica [W]

Value in PointValue (22) = Potencia capacitiva trifasica [W]

Value in PointValue (23) = Factor de potencia trifasico [adim]

Value in PointValue (24) = Frecuencia (L1) [Hz]

Value in PointValue (25) = Potencia aparente trifasica [W]

Value in PointValue (26) = Tension linea L1-L2 [V]

Value in PointValue (27) = Tension linea L2-L3 [V]

Value in PointValue (28) = Tension linea L3-L1 [V]

Value in PointValue (29) = Tension promedio compuesta [V]

Value in PointValue (30) = Hora [adim]

Value in PointValue (31) = Energia activa T1 (+) [Wh]

Value in PointValue (32) = Energia reactiva inductiva T1 (+) [Wh]

Value in PointValue (33) = Energia reactiva capacitiva T1 (+) [Wh]

Value in PointValue (34) = Maxima demanda T1 [W/VA]

Value in PointValue (35) = Energia activa T1 (-) [Wh]

Value in PointValue (36) = Energia reactiva inductiva T1 (-) [Wh]

Value in PointValue (37) = Energia reactiva capacitiva T1 (-) [Wh]

Value in PointValue (38) = Energia activa T2 (+) [Wh]

Value in PointValue (39) = Energia reactiva inductiva T2 (+) [Wh]

Value in PointValue (40) = Energia reactiva capacitiva T2 (+) [Wh]

Value in PointValue (41) = Maxima demanda T2 [W/VA]

Value in PointValue (42) = Energia activa T2 (-) [Wh]

Value in PointValue (43) = Energia reactiva inductiva T2 (-) [Wh]

Value in PointValue (44) = Energia reactiva capacitiva T2 (-) [Wh]

Value in PointValue (45) = Energia activa T3 (+) [Wh]

Value in PointValue (46) = Energia reactiva inductiva T3 (+) [Wh]

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Value in PointValue (47) = Energia reactiva capacitativa T3 (+) [Wh]
Value in PointValue (48) = Maxima demanda T3 [W/VA]
Value in PointValue (49) = Energia activa T3 (-) [Wh]
Value in PointValue (50) = Energia reactiva inductiva T3 (-) [Wh]
Value in PointValue (51) = Energia reactiva capacitativa T3 (-) [Wh]
Value in PointValue (52) = Intensidad de neutro [mA]
Value in PointValue (53) = %THD V 1 [%]
Value in PointValue (54) = %THD V 2 [%]
Value in PointValue (55) = %THD V 3 [%]
Value in PointValue (56) = %THD I 1 [%]
Value in PointValue (57) = %THD I 2 [%]
Value in PointValue (58) = %THD I 3 [%]

Lectura de variables electricas trifasico minimas

Description of this command:

Lee un paquete de 59 mediciones conteniendo los minimos de las variables electricas trifasico.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

59

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

2

Values that are returned:

Value in PointValue (0) = Tension fase [V]
Value in PointValue (1) = Corriente [mA]
Value in PointValue (2) = Potencia activa [W]
Value in PointValue (3) = Potencia reactiva inductiva [W]
Value in PointValue (4) = Potencia reactiva capacitativa [W]
Value in PointValue (5) = Factor de potencia [adim]
Value in PointValue (6) = Tension fase [V]
Value in PointValue (7) = Corriente [mA]
Value in PointValue (8) = Potencia activa [W]
Value in PointValue (9) = Potencia reactiva inductiva [W]
Value in PointValue (10) = Potencia reactiva capacitativa [W]
Value in PointValue (11) = Factor de potencia [adim]
Value in PointValue (12) = Tension fase [V]
Value in PointValue (13) = Corriente [mA]
Value in PointValue (14) = Potencia activa [W]
Value in PointValue (15) = Potencia reactiva inductiva [W]
Value in PointValue (16) = Potencia reactiva capacitativa [W]
Value in PointValue (17) = Factor de potencia [adim]
Value in PointValue (18) = Tension promedio [V]
Value in PointValue (19) = Corriente promedio [mA]
Value in PointValue (20) = Potencia activa trifasica [W]
Value in PointValue (21) = Potencia inductiva trifasica [W]
Value in PointValue (22) = Potencia capacitativa trifasica [W]
Value in PointValue (23) = Factor de potencia trifasico [adim]
Value in PointValue (24) = Frecuencia (L1) [Hz]
Value in PointValue (25) = Potencia aparente trifasica [W]
Value in PointValue (26) = Tension linea L1-L2 [V]
Value in PointValue (27) = Tension linea L2-L3 [V]
Value in PointValue (28) = Tension linea L3-L1 [V]
Value in PointValue (29) = Tension promedio compuesta [V]
Value in PointValue (30) = Hora [adim]
Value in PointValue (31) = Energia activa T1 (+) [Wh]
Value in PointValue (32) = Energia reactivainductiva T1 (+) [Wh]
Value in PointValue (33) = Energia reactiva capacitativa T1 (+) [Wh]
Value in PointValue (34) = Maxima demanda T1 [W/VA]
Value in PointValue (35) = Energia activa T1 (-) [Wh]
Value in PointValue (36) = Energia reactiva inductiva T1 (-) [Wh]

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Value in PointValue (37) = Energia reactiva capacitiva T1 (-) [Wh]
Value in PointValue (38) = Energia activa T2 (+) [Wh]
Value in PointValue (39) = Energia reactiva inductiva T2 (+) [Wh]
Value in PointValue (40) = Energia reactiva capacitiva T2 (+) [Wh]
Value in PointValue (41) = Maxima demanda T2 [W/VA]
Value in PointValue (42) = Energia activa T2 (-) [Wh]
Value in PointValue (43) = Energia reactiva inductiva T2 (-) [Wh]
Value in PointValue (44) = Energia reactiva capacitiva T2 (-) [Wh]
Value in PointValue (45) = Energia activa T3 (+) [Wh]
Value in PointValue (46) = Energia reactiva inductiva T3 (+) [Wh]
Value in PointValue (47) = Energia reactiva capacitiva T3 (+) [Wh]
Value in PointValue (48) = Maxima demanda T3 [W/VA]
Value in PointValue (49) = Energia activa T3 (-) [Wh]
Value in PointValue (50) = Energia reactiva inductiva T3 (-) [Wh]
Value in PointValue (51) = Energia reactiva capacitiva T3 (-) [Wh]
Value in PointValue (52) = Intensidad de neutro [mA]
Value in PointValue (53) = %THD V 1 [%]
Value in PointValue (54) = %THD V 2 [%]
Value in PointValue (55) = %THD V 3 [%]
Value in PointValue (56) = %THD I 1 [%]
Value in PointValue (57) = %THD I 2 [%]
Value in PointValue (58) = %THD I 3 [%]

Lectura de reloj del equipo

Description of this command:

Lee un paquete de 6 valores conteniendo los datos del reloj del equipo.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

6

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

3

Values that are returned:

Value in PointValue (0) = Dia
Value in PointValue (1) = Mes
Value in PointValue (2) = Anio
Value in PointValue (3) = Hora
Value in PointValue (4) = Minutos
Value in PointValue (5) = Segundos

Escritura de reloj del equipo

Description of this command:

Escribe un paquete de 6 valores enviando los nuevos datos del reloj del equipo.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

6

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

3

Values that are returned:

Value in PointValue (0) = Nuevo dia
Value in PointValue (1) = Nuevo mes
Value in PointValue (2) = Nuevo anio
Value in PointValue (3) = Nueva hora
Value in PointValue (4) = Nuevos minutos
Value in PointValue (5) = Nuevos segundos

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Lectura de los puntos del convertidor

Description of this command:

Lee un paquete de 27 valores conteniendo los sumatorios de puntos del convertidor necesarios para calcular las ganancias.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

27

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

4

Values that are returned:

Value in PointValue (0) = Corriente I1 escala 1
Value in PointValue (1) = Corriente I1 escala 2
Value in PointValue (2) = Tension V1
Value in PointValue (3) = Corriente I2 escala 1
Value in PointValue (4) = Corriente I2 escala 2
Value in PointValue (5) = Tension V2
Value in PointValue (6) = Corriente I3 escala 1
Value in PointValue (7) = Corriente I3 escala 2
Value in PointValue (8) = Tension V3
Value in PointValue (9) = Tension V12
Value in PointValue (10) = Tension V23
Value in PointValue (11) = Tension V31
Value in PointValue (12) = Potencia activa fase 1 escala 1
Value in PointValue (13) = Potencia activa fase 1 escala 2
Value in PointValue (14) = Potencia activa fase 2 escala 1
Value in PointValue (15) = Potencia activa fase 2 escala 2
Value in PointValue (16) = Potencia activa fase 3 escala 1
Value in PointValue (17) = Potencia activa fase 3 escala 2
Value in PointValue (18) = Potencia reactiva fase 1 escala 1
Value in PointValue (19) = Potencia reactiva fase 1 escala 2
Value in PointValue (20) = Potencia reactiva fase 2 escala 1
Value in PointValue (21) = Potencia reactiva fase 2 escala 2
Value in PointValue (22) = Potencia reactiva fase 3 escala 1
Value in PointValue (23) = Potencia reactiva fase 3 escala 2
Value in PointValue (24) = Corriente de neutro escala 1
Value in PointValue (25) = Corriente de neutro escala 2
Value in PointValue (26) = Numero de muestras

Lectura de las ganancias

Description of this command:

Lee un paquete de 12 valores conteniendo las ganancias o factores de calibracion definidos en fabrica.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

12

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

5

Values that are returned:

Value in PointValue (0) = Ganancia corriente linea 1
Value in PointValue (1) = Ganancia tension linea 1
Value in PointValue (2) = Ganancia corriente linea 2
Value in PointValue (3) = Ganancia tension linea 2
Value in PointValue (4) = Ganancia corriente linea 3
Value in PointValue (5) = Ganancia tension linea 3
Value in PointValue (6) = Ganancia corriente neutro

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Value in PointValue (7) = Ganancia tension neutro
Value in PointValue (8) = Ganancia escala 2 linea I1
Value in PointValue (9) = Ganancia escala 2 linea I2
Value in PointValue (10) = Ganancia escala 2 linea I3
Value in PointValue (11) = Ganancia escala 2 linea IN

NOTA:

Para leer las ganancias del equipo, el flag de test de ganancias debe estar activado.

Escritura de las ganancias

Description of this command:

Escribe un paquete de 12 valores conteniendo los valores actuales de las ganancias del equipo.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

12

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

0

Values that are sent:

Value in PointValue (0) = Nueva ganancia corriente linea 1
Value in PointValue (1) = Nueva ganancia tension linea 1
Value in PointValue (2) = Nueva ganancia corriente linea 2
Value in PointValue (3) = Nueva ganancia tension linea 2
Value in PointValue (4) = Nueva ganancia corriente linea 3
Value in PointValue (5) = Nueva ganancia tension linea 3
Value in PointValue (6) = Nueva ganancia corriente neutro
Value in PointValue (7) = Nueva ganancia tension neutro
Value in PointValue (8) = Nueva ganancia escala 2 linea I1
Value in PointValue (9) = Nueva ganancia escala 2 linea I2
Value in PointValue (10) = Nueva ganancia escala 2 linea I3
Value in PointValue (11) = Nueva ganancia escala 2 linea IN

NOTA:

Para manipular las ganancias del equipo, el flag de test de ganancias debe estar activado.

Lectura del estado de las salidas digitales

Description of this command:

Lee un paquete de 2 valores conteniendo los estados de los reles 1 y 2.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

2

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

1

Values that are returned:

Value in PointValue (0) = Nuevo estado del rele 1
Value in PointValue (1) = Nuevo estado del rele 2

Seteo del estado de una salida digital

Description of this command:

Escribe el nuevo estado para uno de los dos reles del equipo.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

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Meaning of the DriverP1 parameter:

1

Meaning of the DriverP2 parameter:

Numero de rele (1 o 2)

Values that are sent:

Value in PointValue (0) = Nuevo estado del rele

Lectura del estado del teclado

Description of this command:

Lee un paquete de 4 valores conteniendo los estados de las teclas MAX, MIN, DISPLAY y RESET del teclado del equipo.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

4

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

2

Values that are returned:

Value in PointValue (0) = Estado de la tecla MAX

Value in PointValue (1) = Estado de la tecla MIN

Value in PointValue (2) = Estado de la tecla DISPLAY

Value in PointValue (3) = Estado de la tecla RESET

Seteo del flag de test de ganancias

Description of this command:

Establece el estado del flag de test de ganancias para permitir la lectura y manipulacion de las mismas. Este flag es de solo escritura y no permite su lectura.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

0

Values that are sent:

Value in PointValue (0) = Nuevo estado del flag

NOTA:

Para poder leer o manipular las ganancias del equipo, este flag de test de ganancias debe estar activado.

Borrado de energias

Description of this command:

Envia al equipo la instruccion de borrado de energias.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

2

Borrado de maxima demanda

Description of this command:

Envia al equipo la instruccion de borrado de maxima demanda.

Methods used to run this command:

Digital Output

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Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

3

Borrado de maximos y minimos

Description of this command:

Envia al equipo la instruccion de borrado de maximos y minimos.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

4

Borrado de todo

Description of this command:

Envia al equipo la instruccion de borrado de todo.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

5

Reset del equipo

Description of this command:

Envia al equipo la instruccion de reset del sistema. Este comando no espera respuesta ya que inmediatamente despues de enviado, el equipo se resetea.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

6

Seleccion de variables a registrar (CVT)

Description of this command:

Establece cuales seran las variables a ser registradas por el equipo.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-122

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

1

Values that are sent:

Value in PointValue (0) =Codigo de la primer variable a registrar

Value in PointValue (1) =Codigo de la segunda variable a registrar . . .

Value in PointValue (NumPoints-1) =Codigo de la ultima variable a registrar

TABLA DE CODIGOS:

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Los valores permitidos para cada PointValue son los siguientes:

0 = V1
1 = A1
2 = kW1
3 = kvar L1
4 = kvar C1
5 = PF 1
6 = V2
7 = A2
8 = kW2
9 = kvar L2
10 = kvar C2
11 = PF2
12 = V3
13 = A3
14 = kW3
15 = kvar L3
16 = kvar C3
17 = PF3
18 = Vav III N
19 = Aav III
20 = kWIII
21 = kvar LIII
22 = kvar CIII
23 = PF III
24 = Hz
25 = kVA III
26 = V12
27 = V23
28 = V31
29 = Vav III
30 = DC1
31 = DC2
32 = V1mx
33 = A1mx
34 = kW1mx
35 = kvar L1mx
36 = kvar C1mx
37 = PF 1mx
38 = V2mx
39 = A2mx
40 = kW2mx
41 = kvar L2mx
42 = kvar C2mx
43 = PF2mx
44 = V3mx
45 = A3mx
46 = kW3mx
47 = kvar L3mx
48 = kvar C3mx
49 = PF3mx
50 = Vav III Nmx
51 = Aav III mx
52 = kWIII mx
53 = kvar LIII mx
54 = kvar CIII mx
55 = PF III mx
56 = Hzmx
57 = kVA III mx
58 = V12mx
59 = V23mx
60 = V31mx

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61 = Vav III mx
62 = DC1 mx
63 = DC2 mx
64 = V1 mn
65 = A1 mn
66 = kW1 mn
67 = kvar L1 mn
68 = kvar C1 mn
69 = PF 1 mn
70 = V2 mn
71 = A2 mn
72 = kW2 mn
73 = kvar L2 mn
74 = kvar C2 mn
75 = PF2 mn
76 = V3 mn
77 = A3 mn
78 = kW3 mn
79 = kvar L3 mn
80 = kvar C3 mn
81 = PF3 mn
82 = Vav III N mn
83 = Aav III mn
84 = kW III mn
85 = kvar L III mn
84 = kW III mn
85 = kvar L III mn
86 = kvar C III mn
87 = PF III mn
88 = Hz mn
89 = kVA III mn
90 = V12 mn
91 = V23 mn
92 = V31 mn
93 = Vav III mn
94 = DC1 mn
95 = DC2 mn
96 = nkW1
97 = nkvar L1
98 = nkvar C1
99 = nkW2
100 = nkvar L2
101 = nkvar C2
102 = nkW3
103 = nkvar L3
104 = nkvar C3
105 = nkW III
106 = nkvar L III
107 = nkvar C III
108 = nkW1 mx
109 = nkvar L1 mx
110 = nkvar C1 mx
111 = nkW2 mx
112 = nkvar L2 mx
113 = nkvar C2 mx
114 = nkW3 mx
115 = nkvar L3 mx
116 = nkvar C3 mx
117 = nkW III mx
118 = nkvar L III mx
119 = nkvar C III mx
120 = nkW1 mn

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121 = nkvar L1mn
122 = nkvar C1mn
123 = nkW2mn
124 = nkvar L2mn
125 = nkvar C2mn
126 = nkW3mn
127 = nkvar L3mn
128 = nkvar C3mn
129 = nkWIII mn
130 = nkvar LIII mn
131 = nkvar CIII mn
132 = kwh-1
133 = kwh/1000-1
134 = kvarLh-1
135 = kvarLh/1000-1
136 = kvarCh-1
137 = kvarCh/1000-1
138 = nkwh-1
139 = nkwh/1000-1
140 = nkvarLh-1
141 = nkvarLh/1000-1
142 = nkvarCh-1
143 = nkvarCh/1000-1
144 = kwh-2
145 = kwh/1000-2
146 = kvarLh-2
147 = kvarLh/1000-2
148 = kvarCh-2
149 = kvarCh/1000-2
150 = nkwh-2
151 = nkwh/1000-2
152 = nkvarLh-2
153 = nkvarLh/1000-2
154 = nkvarCh-2
155 = nkvarCh/1000-2
156 = kwh-3
157 = kwh/1000-3
158 = kvarLh-3
159 = kvarLh/1000-3
160 = kvarCh-3
161 = kvarCh/1000-3
162 = nkwh-3
163 = nkwh/1000-3
164 = nkvarLh-3
165 = nkvarLh/1000-3
166 = nkvarCh-3
167 = nkvarCh/1000-3
168 = nPF 1
169 = nPF 2
170 = nPF 3
171 = nPF III
172 = nPF 1 mx
173 = nPF 2 mx
174 = nPF 3 mx
175 = nPF III mx
176 = nPF 1 mn
177 = nPF 2 mn
178 = nPF 3 mn
179 = nPF III mn

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Lectura del seteo del trigger (CVT)

Description of this command:

Lee 5 valores con los seteos de la condicion del trigger del inicio de registro del equipo.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

5

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

9

Values that are returned:

Value in PointValue (0) =Codigo de variable para el trigger (0-9)

Value in PointValue (1) = Fecha de inicio de registro

Value in PointValue (2) = Fecha de fin de registro

Value in PointValue (3) = Valor maximo de trigger

Value in PointValue (4) = Valor minimo de trigger

Establecer seteo del trigger (CVT)

Description of this command:

Establece las condiciones bajo las cuales se realizara el disparo del registro de las mediciones establecidas.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

5

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

4

Values that are sent:

Value in PointValue (0) =Codigo de variable para el trigger (0-9)

Value in PointValue (1) = Fecha de inicio de registro

Value in PointValue (2) = Fecha de fin de registro

Value in PointValue (3) = Valor maximo de trigger

Value in PointValue (4) = Valor minimo de trigger

Lectura del tiempo de registro actual (CVT)

Description of this command:

Lee un valor conteniendo el tiempo actual en minutos entre dos registros consecutivos en la memoria del equipo.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

6

Values that are returned:

Value in PointValue (0) = Tiempo de registro actual

Establecer tiempo de registro (CVT)

Description of this command:

Establece cual sera el tiempo entre dos muestras consecutivas registradas por el equipo, en minutos.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

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Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

2

Values that are sent:

Value in PointValue (0) = Tiempo entre muestras en segundos.

Leer cabecera de la memoria (CVT)

Description of this command:

Lee la cabecera del fichero donde se almacenan los registros y la guarda en un archivo.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

7

Meaning of the DriverP6 parameter:

Nombre con path completo del archivo de destino.

Values that are returned:

Value in PointValue (0) = Longitud total de la cabecera

Value in PointValue (1) = Longitud total de cada registro

Value in PointValue (2) = Cantidad de variables que se registran

Leer punteros y cantidad de registros (CVT y CVP)

Description of this command:

Devuelve las posiciones a la que apuntan actualmente los punteros de los archivos CVT y CVP que es donde se escribirán los próximos registros. También devuelve la cantidad de registros que hay actualmente disponibles en cada tipo de fichero. Si la cantidad de registros es el máximo y el puntero es un número inferior, indicará que la memoria ha dado vuelta.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

4

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

8

Values that are returned:

Value in PointValue (0) = Cantidad de registros en memoria (CVT)

Value in PointValue (1) = Posición actual del puntero (CVT)

Value in PointValue (2) = Cantidad de registros en memoria (CVP)

Value in PointValue (3) = Posición actual del puntero (CVP)

Resetear puntero al inicio (CVT)

Description of this command:

Pone el puntero al inicio de la memoria. Haciendo un reset del equipo y justo después enviando este comando, el equipo empezará a registrar desde el principio.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

6

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Leer registros de la memoria (CVT)

Description of this command:

Este comando implementa la lectura de una cantidad de registros a partir de una posición indicada, almacenando en un archivo binario (CVT) los datos recibidos. El comando también se encarga de obtener previamente la cabecera que le corresponde a ese archivo. Si el archivo no existe, se crea un archivo nuevo utilizando la cabecera obtenida. Si el archivo ya existe, se compara la cabecera obtenida con la cabecera existente en el archivo de destino antes de agregarle nuevos registros. Si la cabecera es diferente, el comando se aborta sin agregar registros al archivo.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

6

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

20

Meaning of the DriverP2 parameter:

Posición inicial a leer

Meaning of the DriverP3 parameter:

Cantidad de registros a leer

Meaning of the DriverP4 parameter:

Ignorar comparación de cabeceras (1=Si, 0=No)

Meaning of the DriverP5 parameter:

Número de reintentos con cada bloque transferido antes de abandonar la bajada del archivo. Si se deja en 0, se realizarán 10 reintentos.

Meaning of the DriverP6 parameter:

Nombre con path completo del archivo de destino.

Values that are returned:

Value in PointValue (0) = Cantidad total de bytes leídos

Value in PointValue (1) = Longitud total de la cabecera

Value in PointValue (2) = Longitud total de cada registro

Value in PointValue (3) = Cantidad de variables que se registran

Value in PointValue (4) = Cantidad total de muestras leídas

Value in PointValue (5) = Posición final leída

Leer registros de eventos (CVP)

Description of this command:

Este comando implementa la lectura de una cantidad de registros a partir de una posición indicada, almacenando en un archivo binario (CVP) los datos recibidos. El comando también se encarga de obtener previamente la cabecera que le corresponde a ese archivo. Si el archivo no existe, se crea un archivo nuevo utilizando la cabecera obtenida. Si el archivo ya existe, se compara la cabecera obtenida con la cabecera existente en el archivo de destino antes de agregarle nuevos registros. Si la cabecera es diferente, el comando se aborta sin agregar registros al archivo.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

6

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

21

Meaning of the DriverP2 parameter:

Posición inicial a leer

Meaning of the DriverP3 parameter:

Cantidad de registros a leer

Meaning of the DriverP5 parameter:

Número de reintentos con cada bloque transferido antes de abandonar la bajada del archivo. Si se deja en 0, se realizarán 10 reintentos.

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Meaning of the DriverP6 parameter:

Nombre con path completo del archivo de destino.

Values that are returned:

Value in PointValue (0) = Cantidad total de bytes leidos

Value in PointValue (1) = Longitud total de la cabecera

Value in PointValue (2) = Longitud total de cada registro

Value in PointValue (3) = Cantidad de variables que se registran

Value in PointValue (4) = Cantidad total de muestras leidas

Value in PointValue (5) = Posicion final leida

Descomposicion armonica de Corriente 1

Description of this command:

Lee un paquete de 15 valores conteniendo la corriente RMS y catorce componentes armonicos para la corriente 1.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

15

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

10

Values that are returned:

Value in PointValue (0) = Corriente RMS

Value in PointValue (1) = Componente armonico 1

Value in PointValue (2) = Componente armonico 2

Value in PointValue (3) = Componente armonico 3

Value in PointValue (4) = Componente armonico 4

Value in PointValue (5) = Componente armonico 5

Value in PointValue (6) = Componente armonico 6

Value in PointValue (7) = Componente armonico 7

Value in PointValue (8) = Componente armonico 8

Value in PointValue (9) = Componente armonico 9

Value in PointValue (10) = Componente armonico 10

Value in PointValue (11) = Componente armonico 11

Value in PointValue (12) = Componente armonico 12

Value in PointValue (13) = Componente armonico 13

Value in PointValue (14) = Componente armonico 14

Descomposicion armonica de Corriente 2

Description of this command:

Lee un paquete de 15 valores conteniendo la corriente RMS y catorce componentes armonicos para la corriente 2.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

15

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

11

Values that are returned:

Value in PointValue (0) = Corriente RMS

Value in PointValue (1) = Componente armonico 1

Value in PointValue (2) = Componente armonico 2

Value in PointValue (3) = Componente armonico 3

Value in PointValue (4) = Componente armonico 4

Value in PointValue (5) = Componente armonico 5

Value in PointValue (6) = Componente armonico 6

Value in PointValue (7) = Componente armonico 7

Value in PointValue (8) = Componente armonico 8

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Value in PointValue (9) = Componente armonico 9
Value in PointValue (10) = Componente armonico 10
Value in PointValue (11) = Componente armonico 11
Value in PointValue (12) = Componente armonico 12
Value in PointValue (13) = Componente armonico 13
Value in PointValue (14) = Componente armonico 14

Descomposicion armonica de Corriente 3

Description of this command:

Lee un paquete de 15 valores conteniendo la corriente RMS y catorce componentes armonicos para la corriente 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

15

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

12

Values that are returned:

Value in PointValue (0) = Corriente RMS
Value in PointValue (1) = Componente armonico 1
Value in PointValue (2) = Componente armonico 2
Value in PointValue (3) = Componente armonico 3
Value in PointValue (4) = Componente armonico 4
Value in PointValue (5) = Componente armonico 5
Value in PointValue (6) = Componente armonico 6
Value in PointValue (7) = Componente armonico 7
Value in PointValue (8) = Componente armonico 8
Value in PointValue (9) = Componente armonico 9
Value in PointValue (10) = Componente armonico 10
Value in PointValue (11) = Componente armonico 11
Value in PointValue (12) = Componente armonico 12
Value in PointValue (13) = Componente armonico 13
Value in PointValue (14) = Componente armonico 14

Descomposicion armonica de Tension 1

Description of this command:

Lee un paquete de 15 valores conteniendo la tension RMS y catorce componentes armonicos para la tension 1.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

15

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

13

Values that are returned:

Value in PointValue (0) = Tension RMS
Value in PointValue (1) = Componente armonico 1
Value in PointValue (2) = Componente armonico 2
Value in PointValue (3) = Componente armonico 3
Value in PointValue (4) = Componente armonico 4
Value in PointValue (5) = Componente armonico 5
Value in PointValue (6) = Componente armonico 6
Value in PointValue (7) = Componente armonico 7
Value in PointValue (8) = Componente armonico 8
Value in PointValue (9) = Componente armonico 9
Value in PointValue (10) = Componente armonico 10
Value in PointValue (11) = Componente armonico 11

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Value in PointValue (12) = Componente armonico 12
Value in PointValue (13) = Componente armonico 13
Value in PointValue (14) = Componente armonico 14

Descomposicion armonica de Tension 2

Description of this command:

Lee un paquete de 15 valores conteniendo la tension RMS y catorce componentes armonicos para la tension 2.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

15

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

14

Values that are returned:

Value in PointValue (0) = Tension RMS
Value in PointValue (1) = Componente armonico 1
Value in PointValue (2) = Componente armonico 2
Value in PointValue (3) = Componente armonico 3
Value in PointValue (4) = Componente armonico 4
Value in PointValue (5) = Componente armonico 5
Value in PointValue (6) = Componente armonico 6
Value in PointValue (7) = Componente armonico 7
Value in PointValue (8) = Componente armonico 8
Value in PointValue (9) = Componente armonico 9
Value in PointValue (10) = Componente armonico 10
Value in PointValue (11) = Componente armonico 11
Value in PointValue (12) = Componente armonico 12
Value in PointValue (13) = Componente armonico 13
Value in PointValue (14) = Componente armonico 14

Descomposicion armonica de Tension 3

Description of this command:

Lee un paquete de 15 valores conteniendo la tension RMS y catorce componentes armonicos para la tension 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

15

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

15

Values that are returned:

Value in PointValue (0) = Tension RMS
Value in PointValue (1) = Componente armonico 1
Value in PointValue (2) = Componente armonico 2
Value in PointValue (3) = Componente armonico 3
Value in PointValue (4) = Componente armonico 4
Value in PointValue (5) = Componente armonico 5
Value in PointValue (6) = Componente armonico 6
Value in PointValue (7) = Componente armonico 7
Value in PointValue (8) = Componente armonico 8
Value in PointValue (9) = Componente armonico 9
Value in PointValue (10) = Componente armonico 10
Value in PointValue (11) = Componente armonico 11
Value in PointValue (12) = Componente armonico 12
Value in PointValue (13) = Componente armonico 13
Value in PointValue (14) = Componente armonico 14

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Error messages

The following list shows the possible error messages that can be returned by the driver during a failed communication in the 'Status' property.

[1005] DRIVER (Internal): Invalid driver stage
[1201] DRIVER (System): Error closing %s
[1202] DRIVER (System): Error creating %s
[1204] DRIVER (System): Error opening %s
[1207] DRIVER (System): Error reading %s
[1208] DRIVER (System): Error seeking end of %s
[1210] DRIVER (System): Error writing to %s
[1300] PROTOCOL (Timeout): No answer
[1421] PROTOCOL (Format): Negative acknowledge received from device
[1425] PROTOCOL (Format): Response is too short
[2114] CONFIG (NumValues): Invalid number of values (must be 12)
[2115] CONFIG (NumValues): Invalid number of values (must be 15)
[2117] CONFIG (NumValues): Invalid number of values (must be 2)
[2121] CONFIG (NumValues): Invalid number of values (must be 27)
[2125] CONFIG (NumValues): Invalid number of values (must be 4)
[2127] CONFIG (NumValues): Invalid number of values (must be 5)
[2128] CONFIG (NumValues): Invalid number of values (must be 59)
[2129] CONFIG (NumValues): Invalid number of values (must be 6)
[2141] CONFIG (NumValues): Only one flag can be requested
[2144] CONFIG (NumValues): Only one register can be requested
[2145] CONFIG (NumValues): Only one register can be written
[2146] CONFIG (NumValues): Only one status can be set
[2148] CONFIG (NumValues): Only one value can be requested
[2249] CONFIG (NumValues): Too many values requested (max=122)
[3022] CONFIG (P0): Invalid device address (1-255)
[3508] CONFIG (P1): Invalid command
[4067] CONFIG (P2): Invalid initial position
[4093] CONFIG (P2): Invalid relay number (1 or 2)
[4548] CONFIG (P3): Invalid number of registers
[5034] CONFIG (P4): Invalid setting (0 or 1)
[6002] CONFIG (P6): Destination filename not supplied
[8013] CONFIG (Remote): Acknowledge
[8036] CONFIG (Remote): Busy, rejected message
[8138] CONFIG (Remote): Failure in associated device
[8168] CONFIG (Remote): Illegal data address
[8170] CONFIG (Remote): Illegal data value
[8172] CONFIG (Remote): Illegal function
[8347] CONFIG (Remote): Unknown error

Supported devices

This driver can communicate with these devices, but is not necessarily limited to this list:

CIRCUTOR Power Meter CVM-BD-M

CPKSoft Engineering

Industrial communication
drivers.

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