

Industrial communication solutions for Windows

XTXM Driver Manual

IG Instrumentos TECPET/MNT Level Gauges Driver

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XTXM technical specifications

General information

XTXM driver allows you to connect to the IG Instrumentos TECPET level gauges model MNT02 and MNT06. An RS-485 port or external RS-232/885 adapter is required.

Command list

Read Measured Values and Alarms

Description of this command:

Reads all the measured values plus all the gauge alarm flags.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

39

Meaning of the DriverP0 parameter:

Identifies the level gauge number (1-255).

Meaning of the DriverP1 parameter:

5

Values that are returned:*Measured Values:*

Value in PointValue (0) = NIVEL DE PRODUCTO (mm)

Value in PointValue (1) = INTERFASE (mm)

Value in PointValue (2) = DISLOCADOR (mm)

Value in PointValue (3) = TEMPERATURA (oC)

Value in PointValue (4) = SENSOR #1

Value in PointValue (5) = SENSOR #2

Value in PointValue (6) = BATERIA

Alarms:

Value in PointValue (7) = DESACTIVACION DEL MEDIDOR

Value in PointValue (8) = MOVIMIENTO DE PAP

Value in PointValue (9) = HABILITACION DE LASTRO

Value in PointValue (10) = SENSOR 4-20 mA FUERA DE RANGO

Value in PointValue (11) = SENSOR DE PRESION HABILITADO

Value in PointValue (12) = TEMPERATURA FUERA DE RANGO

Value in PointValue (13) = SENTIDO DE ROTACION DEL PAP

Value in PointValue (14) = MAXIMA VELOCIDAD DE PAP

Value in PointValue (15) = SENSOR DE TEMPERATURA HABILITADO

Value in PointValue (16) = FLAG DE TEST DE REPETIBILIDAD

Value in PointValue (17) = SE DIRIJE HACIA EL LASTRO

Value in PointValue (18) = SE DIRIJE HACIA EL PRODUCTO

Value in PointValue (19) = DAC FISICO ANTES QUE DAC SOFTWARE

Value in PointValue (20) = ESTADO DE ENTRADA DIGITAL

Value in PointValue (21) = DENSIDAD DE PRODUCTO MAL

Value in PointValue (22) = MEDICION FIJA DE LASTRO

Value in PointValue (23) = LIMITE MAXIMO

Value in PointValue (24) = LIMITE MINIMO

Value in PointValue (25) = LIMITE HI-HI

Value in PointValue (26) = LIMITE LO-LO

Value in PointValue (27) = ERROR DE DENSIDAD. NO SE PUEDE MEDIR LASTRO

Value in PointValue (28) = MEDIDOR EN TEST

Value in PointValue (29) = FALTA INICIALIZACION

Value in PointValue (30) = SUBIENDO A DESACTIVAR

Value in PointValue (31) = TEMPERATURA FUERA DE RANGO

Value in PointValue (32) = COMANDO DE DENSIDAD

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Value in PointValue (33) = DAC SOFTWARE ANTES QUE DAC FISICO
Value in PointValue (34) = DAC FISICO HABILITADO
Value in PointValue (35) = ERROR DE LASTRO
Value in PointValue (36) = S_DAC
Value in PointValue (37) = LIMITA MOVIMIENTO HACIA ARRIBA (UP)
Value in PointValue (38) = LIMITA MOVIMIENTO HACIA ABAJO (DOWN)

Read Initialization Parameters

Description of this command:

Reads the initialization parameters currently used by the level gauge.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

6

Meaning of the DriverP0 parameter:

Identifies the level gauge number (1-255).

Meaning of the DriverP1 parameter:

10

Values that are returned:

Value in PointValue (0) = DAC (mm)
Value in PointValue (1) = PISO (mm)
Value in PointValue (2) = HIGH-HIGH (mm)
Value in PointValue (3) = LOW-LOW (mm)
Value in PointValue (4) = MAXIMO (mm)
Value in PointValue (5) = MINIMO (mm)

Initialize Gauge

Description of this command:

Sends the initialization parameters to a selected level gauge or to all gauges.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

6

Meaning of the DriverP0 parameter:

Identifies the level gauge number (0-255). If the level gauge number is set to 0, the command will be sent to all level gauges.

Meaning of the DriverP1 parameter:

3

Values that are sent:

Value in PointValue (0) = DISLOCADOR (mm)
Value in PointValue (1) = LOW-LOW (mm)
Value in PointValue (2) = HIGH-HIGH (mm)
Value in PointValue (3) = DAC (mm)
Value in PointValue (4) = PISO (mm)
Value in PointValue (5) = INIC_BYTE (0 a 3)

Activate Gauge

Description of this command:

Este comando activa al medidor en caso de estar desactivado, o interrumpe cualquier secuencia anterior como ser busqueda de interfase, desactivacion, test de repetibilidad, etc., en caso de que ya estuviera activado.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Identifies the level gauge number (0-255). If the level gauge number is set to 0, the command will be sent to all level gauges.

Meaning of the DriverP1 parameter:

9

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Values that are sent:

Value in PointValue (0) = Not used

Deactivate Gauge

Description of this command:

Este comando pone en marcha en el medidor la secuencia de posicionamiento en el valor deseado, para su posterior desactivacion.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Identifies the level gauge number (0-255). If the level gauge number is set to 0, the command will be sent to all level gauges.

Meaning of the DriverP1 parameter:

8

Meaning of the DriverP2 parameter:

Se utiliza para especificar la posicion de desactivacion a ser enviada.

Values that are sent:

Value in PointValue (0) = Not used

Partial Reset

Description of this command:

Este comando resetea los flags de alarmas en el medidor.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Identifies the level gauge number (0-255). If the level gauge number is set to 0, the command will be sent to all level gauges.

Meaning of the DriverP1 parameter:

2

Values that are sent:

Value in PointValue (0) = Not used

Full Reset

Description of this command:

Este comando resetea fisicamente al medidor.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Identifies the level gauge number (0-255). If the level gauge number is set to 0, the command will be sent to all level gauges.

Meaning of the DriverP1 parameter:

1

Values that are sent:

Value in PointValue (0) = Not used

Set Range

Description of this command:

Este comando permite modificar los limites operacionales del medidor.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

2

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Meaning of the DriverP0 parameter:

Identifies the level gauge number (0-255). If the level gauge number is set to 0, the command will be sent to all level gauges.

Meaning of the DriverP1 parameter:

4

Values that are sent:

Value in PointValue (0) = MAXIMO (mm)

Value in PointValue (1) = MINIMO (mm)

Seek Interface

Description of this command:

Este comando pone en marcha en el medidor la secuencia de busqueda de interfase producto-agua.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Identifies the level gauge number (0-255). If the level gauge number is set to 0, the command will be sent to all level gauges.

Meaning of the DriverP1 parameter:

6

Values that are sent:

Value in PointValue (0) = Not used

Repeat Test

Description of this command:

Este comando pone en marcha en el medidor la secuencia de analisis de repetibilidad.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Identifies the level gauge number (0-255). If the level gauge number is set to 0, the command will be sent to all level gauges.

Meaning of the DriverP1 parameter:

7

Meaning of the DriverP2 parameter:

Se utiliza para especificar la posicion del test.

Values that are sent:

Value in PointValue (0) = Not used

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
[1300] PROTOCOL (Timeout): No answer
[1421] PROTOCOL (Format): Negative acknowledge received from device
[1433] PROTOCOL (Format): Validation error in device response
[2117] CONFIG (NumValues): Invalid number of values (must be 2)
[2124] CONFIG (NumValues): Invalid number of values (must be 39)
[2129] CONFIG (NumValues): Invalid number of values (must be 6)
[2147] CONFIG (NumValues): Only one value can be read or written
[3014] CONFIG (P0): Invalid device address (0-255)
[3532] CONFIG (P1): Invalid command (5 or 10 only)
[3537] CONFIG (P1): Invalid command (must be 1,2,6,7,8 or 9)
[3538] CONFIG (P1): Invalid command (must be 3 or 4)
[8122] CONFIG (Remote): Error in command

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Supported devices

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

IG INSTRUMENTOS TECPET MNT02 Tank Level Gauge
IG INSTRUMENTOS TECPET MNT06 Tank Level Gauge

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