

Unit setting via HART

The following totalizer unit codes are available for HART communication:

Unit Code [dec]	Unit code [hex]	Description
60	0x3C	Grams
61	0x3D	Kilograms
62	0x3E	Metric Tons
63	0x3F	Pounds
64	0x40	Short Tons
65	0x41	Long Tons
125	0x7D	Ounce
251	0xFB	No Conversion

Command 171 is used for reading the current unit code and command 170 is used for setting.

Structure of command 171 (Read Totalizer):

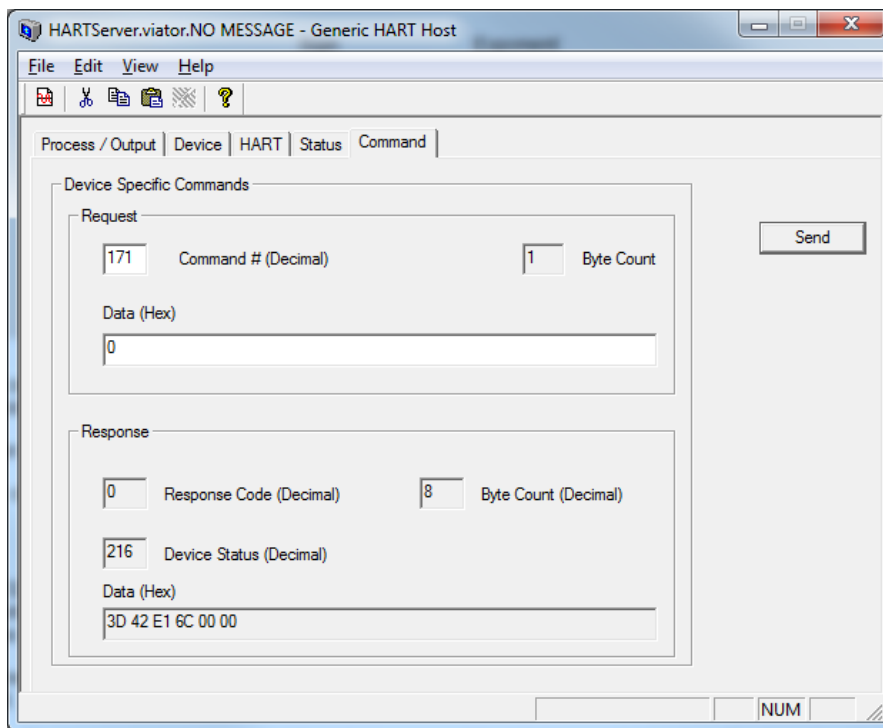
Byte 0 (totalizer no.):

- 0 = Totalizer 1
- 1 = Totalizer 2

Structure of the reply is:

- Byte 0 : Unit Code
- Byte 1-4: Totalizer Value
- Byte 5 : Totalizer no.

Example command 171:



Data in reply:

- Byte 0 Unit code : 3D => kg
- Byte 1-4 Totalizer value : 42 E1 6C 00 => 112.71094
- Byte 5 Totalizer no. : 00 => Totalizer 1

Structure of command 170 (Set Unit Code):

Byte 0 :

- 0 = PV
- 1 = SV
- 2 = TV
- 3 = QV
- 4 = Totalizer 1
- 5 = Totalizer 2

Byte 1 : Unit code

Byte 2 : Reserved (0x00)

Example command 170:

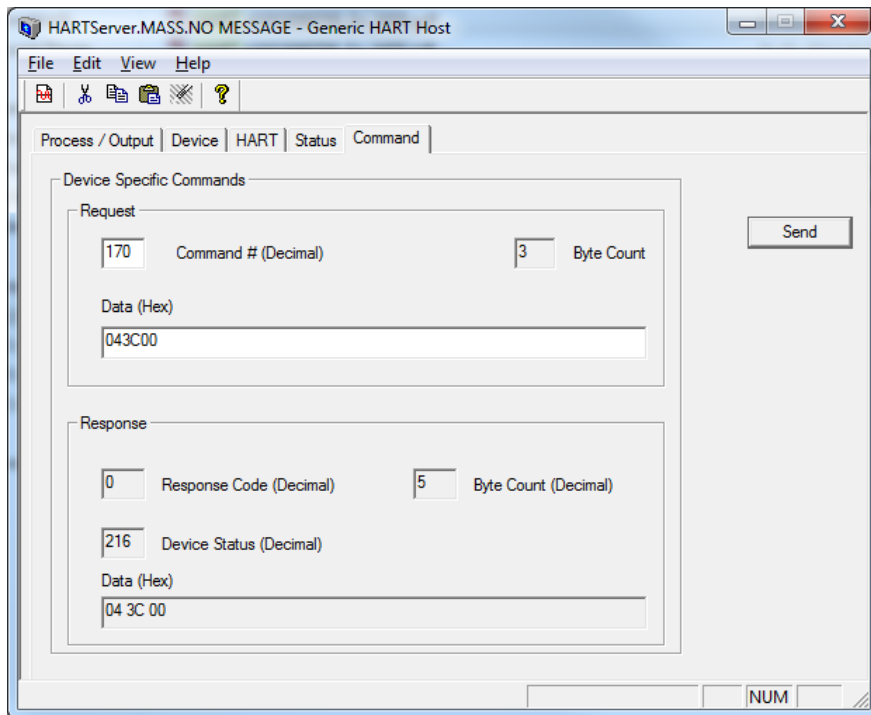
Transmitted Command:

Byte 0 : 4 (Totalizer 1)

Byte 1 : 3C (Gram)

Byte 2 : 0

Send : 043C00



Response shows that Totalizer 1 (04) is now changed to Gram (3C).