BARTEC

HART Add-On Module for Agile X tablet PC

Features

- Configure, set parameters, read out and measure HART devices in the Ex area
- Extension for the Agile X
- Available driver software makes it simple to install and set up
- Connection to HART loop as secondary master
- Hardware supports network diagnosis

Description

The intrinsically safe combination of the Agile X tablet PC system and the newly developed HART Add-On Module makes it possible to perform diagnostics, set parameters and manage field devices much more quickly and efficiently.

Previously considerable time and effort was needed to diagnose problems and set the parameters on field devices. It was necessary to equip a laptop with a separate HART modem, but this was not allowed to be used simultaneously in an Ex area and non-Ex area. Use in the Ex area required a fire certificate with complicated approval procedure.

The HART modem is used as an add-on module for the Agile X tablet PC system in its extension interface. Since the user is now able to switch safely between the Ex and non-Ex area, only one device is then needed for the wireless uploading or adjusting of the field devices distributed there, completely independently of the control system.

The usual software solutions on the market may also be used on the Windows-based Agile X. Communication using the industrial standard FDT/DTM is therefore also possible.

Type 17-A1Z0-0005

➡ Explosion protection

Ex protection type
ATEX ⟨Ex⟩ II 2G Ex ia [ia Ga] IIC T4 Gb

> **Certification**
> EPS 15 ATEX 1 069 X

IECEx Ex ia [ia Ga] IIC T4 Gb

> **Certification**
> IECEx EPS 15.0065X

NEC (USA/Canada)
> Class I Div 1 Groups A, B, C, D T4

> **Certification** (applied for)

Type G7-A0Z0-0007

➡ Explosion protection

Ex protection type
ATEX ⟨Ex⟩ II (2)G [ia Ga] IIC

> **Certification**
> EPS 15 ATEX 1 069 X

IECEx [Ex ia] IIC Ga

> **Certification**
> IECEx EPS 15.0065X

NEC

Use with intrinsically safe outputs in non-Ex areas.

Type B7-A2Z0-0033

➡ Explosion protection

Ex protection type
ATEX ⟨Ex⟩ II 3G Ex ic [ia Ga] IIC T4 Gc
     ⟨Ex⟩ II 3D Ex ic [ia Da] IIIB T135 °C Dc

> **Certification**
> EPS 15 ATEX 1 823 X

IECEx Ex ic [ia Ga] IIC T4 Gc
     Ex ic [ia Da] IIIB T135 °C Dc4

> **Certification**
> IECEx EPS 15.0010X

NEC (USA/Canada)
> Class I Division 2 Groups A, B, C and D

> **Certification**
> UL File E321557

Other country approvals on request.

➡ Technical data

■ System specification

HART interface

$U_I \le DC\ 30\ V$
$I_I \le 130\ mA$
$P_I \le 1\ W$
$U_0 \le DC\ 3\ V$
$I_0 \le 10\ mA$
$P_0 \le 5\ mW$
$U_m \le DC\ 60\ V$
max. cable length = 1.8 m

Energy management

Power supply is via the extension interface of the tablet PC

Connection requirements

- HART loop connection
- The HART Add-On Module may be connected to a non-certified HART device.

  Prerequisite:
  $U_m = 60\ V$ or U_I is not exceeded!

HART interface

- Function as secondary master
- DTM communication driver supports FDT version 1.2.1
- DTM communication driver supports network read/write/check/search (topology scan)
- Burst Mode is not supported by the communication driver
- HART-Protocol supports version 5, 6 and 7

Communication to the host (Agile X)

Via the extension interface of the tablet PC

DTM software

Available DTM software supports the following 64-bit operating systems:
- Windows 7 Professional
- Windows 8.1 Embedded Industry Pro
- Windows 10 Enterprise

Size (length x width x height)
125 x 125 x 24 mm

Weight
200 g

Protection class (IEC 60529)

mounted on tablet PC	IP 54
Terminal strip (PoGo pins)	IP 20

Operating temperature in the Ex area
-20 °C to +50 °C

Operating temperature in the safe area
-20 °C to +60 °C

Storage temperature
-30 °C to +70 °C

Air humidity during operation
30 % to 95 % (non-condensing)

Service
- 1 year standard warranty
- Further 1 or 2 years on request

Scope of delivery
- HART add-on module
- Fixing screws
- Cable set
- Quick Start Guide

➡ HART Add-On Module

ATEX/IECEX Zone 1; Class I Division 1

Order no. 17-A1Z0-0005

ATEX/IECEX Zone 2/22; Class I Division 2

Order no. B7-A2Z0-0033

For non-Ex areas with intrinsically safe outputs

Order no. G7-A0Z0-0007

Technical data subject to change without notice.