HARTING

® Pushing Performance

People | Power | Partnership

HARTING Ha-VIS RFID
System Components

HARTING Ha-VIS RFID System Components

Real-time information and the close synchronization of computer data and real processes play a critical role in process management and process optimization. Ensuring that information precisely maps and concurs with reality is the only way to control processes optimally and reap savings potentials accordingly.

One important prerequisite for guaranteeing that data and processes are synchronized is an intelligent infrastructure that makes data transparent and available throughout a company in order to achieve the maximum savings potentials.

RFID offers you the full potential to create intelligent infrastructures: benefit from the simultaneous identification of up to several hundred objects – without the need for the direct line of sight as required by barcode solutions. The collected data are immediately ready for further processing throughout the company.

Moreover, a transponder can be used to store information directly on the product at the same time it is identified. This means that these data are also always available wherever the product may happen to be located.

HARTING offers smart infrastructure solutions based on optimally coordinated components from a single source. These solutions enable the reliable control and steering of production and business processes, thereby resulting in lower costs.

The HARTING RFID Reader and components have been designed for harsh industrial applications. Deployed in the transportation, machinery and energy markets, HARTING RFID components guarantee secure and reliable information processing – also under the most challenging environmental conditions.

HARTING Smart Infrastructure Solutions

Real time information and the close synchronization of the virtual data world and the real process world play a crucial role in process management and process optimization.
Information constitutes the basis of decisions.

Missing information is detrimental here, while information that is present in the company but that remains hidden due to incompatible and impermeable infrastructures is even more damaging as this costs money without being able to return the full benefits.

Customized RFID Transponder-Solutions
- Ha-VIS RFID SL 89 Set
- customized mounting kits
- Integration of the tag in metallic surfaces
- Read range of 15 m
- Tag is mechanically protected

Ha-VIS Middleware
- Easy and fast integration of RFID Readers
- Configurable without programming effort
- Report of cumulated data in standardized formats
- Conform to EPCglobal® ALE 1.1 standard

RFID out of the Box Solution Complete RFID system
- Incl. RFID reader, switch, protection against overvoltage, and power supply
- Protection class IP 65
- Customer specific configurations possible
- Robust housing

Robust Smart-Labels Ha-VIS RFID FT 89 on metal
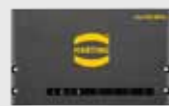- > 2 m read
- Function on metal guaranteed
- Flat design

Finished part monitoring in building management
- Monitoring of static characteristics in prefabricated building parts using RFID technology
- Transponder readable when embedded in concrete
- Readable for decades

Automatic process mapping using RFID reader Ha-VIS RF-R500
- Read range to 16 m
- 4 antennas can be connected
- Up to IP 64 with protection cap
- 5 GPIOs

Reader communicates directly with PLCs via function blocks, e. g. for:
- Siemens S7
- Siemens Simotion
- Allen Bradley
- Mitsubishi

Rugged Ha-VIS RF-ANT-LR10 UHF RFID antenna with very short read range
- Protection class IP 67
- Optimized for near-field applications
- Identification of tools in machines or ensuring the correct positioning of objects, for example

Tool management / maintenance Ha-VIS RFID VT 86 (HT)
- > 4 m range on metal in connection with highly compact footprint
- Variable installation possibilities
- Especially resistant to heat, chemicals, such as during autoclaving

Ha-VIS Application-Suite
- Flexible application solutions
- Easy and fast support of different end divices
- Platform independent applications (Windows CE, Windows, Android, iOS)
- Based on open standards like HTML 5

Localization of transport means for automatic booking processes Ha-VIS RFID CT 89 (NT)
- > 4,5 m range
- Function in and on precast concrete units
- Development for the construction trade

Incoming goods inspection via RFID gate Extremely rugged outdoor antenna for Ha-VIS RF-ANT-WR80-30 for gate applications
- Ruggedized housing
- 30°/70° aperture angle
- Protection class IP 65

Maintenance management
- Cyclic maintenance of safety-related equipment is automated with modern RFID transponders
- Transponder can be placed in cavity
- Tracing of tools

Container management Selective identification of containers with Ha-VIS RFID antennas, especially in harsh industrial environments. Ha-VIS RF-ANT-WR30
- High read range
- Flat, compact design
- Protection class IP 65/IP 67

HARTING smart infrastructure solutions in the railway market

HARTING connectors are well known for their robustness and longevity. These are already asked thousands of times e. g. as jumper cables between two wagons under evidence. The HARTING RFID systems are following this tradition. The customer decides if the transponder is mounted on the train and the reader at the roadbed or the reader is mounted on the train and the transponder in the roadbed. Of course HARTING offers systems tested according to the railway standard EN 50 155. The Ha-VIS Middleware also allows in this environment to be the centralized reader and data manager.

RFID Reader on board
- Vibration EN 61 373 Cat 1B
- Shock EN 61 373 Cat 1B
- Isolation EN 50 155
- Cold / heat EN 50 155
- Damp heat (cyclic) EN 50 155

Ha-VIS RFID SL 89 Set High Speed
- Transponder for High Speed Applications
- Extreme robust
- Resistant to weathering
- Read range of 5 m

RFID out of the Box-Solution Complete RFID system
- Incl. RFID reader, switch, protection against overvoltage, and power supply
- Protection class IP 65
- Customer specific configurations possible
- Robust housing
- Tested for application at track side

Ha-VIS Middleware
- Easy and fast integration of RFID Readers
- Configurable without programming effort
- Report of cumulated data in standardized formats
- Conform to EPCglobal® ALE 1.1 standard

RFID Transponder on the platform
- Tag in concrete (CX Series)
- Extreme robust and durable
- Maintenance-free

Train positioning on the platform
- Via RFID antenna
- IP 67
- Read Range 2 m

RFID Transponder on Railway Sleeper
- Ha-VIS RFID SL 89 Set
- Customized mounting kits
- Customized read range design (antenna boosting)
- Extreme robust and durable
- Maintenance-free

Maintenance / Repair using Ha-VIS RFID VT 86 (HT)
- > 4 m read range on metal
- Variable mounting options
- Resistant to many chemicals
- Extreme robust

Ha-VIS RFID SL 89 Set
- Read range of 15 m
- Mechanically protected by stainless steel bracket
- Customized adaptation possible

RFID antenna on the platform
- Impact-resistant housing
- Read range more than 15 m
- Variable mountable: horizontal and vertical

RFID Products & Accessories

Ha-VIS UHF long range RFID Reader RF-R500

Features

- Suitable for harsh industrial environments
- Very high read range of up to 16 m
- Power over Ethernet capability (PoE) (RF-R500-p)
- 4 antennas can be connected
- Up to 4 W transmitter power (RF-R500-p), otherwise 2 W (RF-R500-c)
- 5 GPIOs
- Interfaces (Ethernet, USB, RS 232, RS 485)
- Fast readout of >150 transponders
- 860 - 960 MHz
- Profibus / Profinet: optional via gateway
- PLC connection – templates of function blocks on request
- Webinterface

Identification	Part. no.
RF-R500-c-EU	20 91 104 1103
RF-R500-c-US	20 91 104 1104
RF-R500-p-EU	20 91 104 1101
RF-R500-p-US	20 91 104 1102

Accessories	
DIN Rail mounting kit	20 93 102 0201
- Board inc. screws for installing the Ha-VIS RF-R500 on DIN rail	
Ha-VIS Protecion cap RF-R500	20 93 901 0101
- Increased protection class IP 64	
- Up to 8 PG lead-throughs	
- Simple and reliable installation on Ha-VIS RF-R500	

Ha-VIS UHF mid range Reader RF-R200

Features

- External antenna (max. read range up to 2 m)
- Internal antenna (max. read range up to 20 cm)
- 500 mW transmission power
- Power over Ethernet
- SMA connector
- Automatic reporting of tags (notification mode)

Identification	Part. no.
Ha-VIS RF-R200 PoE	20 91 106 1101
Ha-VIS RF-R200 USB	20 91 106 1102
Ha-VIS RF-R200 LED (no SMA, only internal antenna)	20 91 106 1104
Ha-VIS RF-R200 Modul (3x SMA)	20 91 106 1103

Accessories	
DIN rail mounting kit RF-R200	20 93 102 0202
Mounting Kit RF-R200	20 93 102 0203
Desktop power supply for RF-R200 (EU)	20 93 310 0203
Desktop power supply for RF-R200 (GB)	20 93 310 0204
Desktop power supply for RF-R200 (US)	20 93 310 0205

Ha-VIS RFID Box

Features

- Completely installed RFID system in cabinet
- Tested and ready for connection
- Modular system
- Customer specific configurations possible
- 2 mm VA steel
- Railway norms
- Protection class IP65

Identification	Part. no.
Ha-VIS RFID Box (RF-R500-p-EU, eCon 2050-A)	20 91 421 1001
Ha-VIS RFID Box (RF-R500-c-EU, eCon 2050-A)	20 91 411 1001

Ha-VIS UHF mobile Reader RF-M3000

Features

- Read range up 2 m
- IP 65 protection
- Several drops on concrete from 1.8 m (handheld switched on incl. WiFi, Barcode scanner, imager)
- WiFi
- 1 GB Flash
- 3.6" TFT Display

Identification	Part. no.
RFID Handheld RF-M3000	20 91 211 1011
RFID Handheld RF-M3001 1D Laser Scanner	20 91 211 1111
RFID Handheld RF-M3002 2D Imager	20 91 211 1311
Mobile reading devices with higher read ranges on request	

Accessories	
Ha-VIS RF-M3000 battery 4400 mAh	20 93 405 0101
Ha-VIS RF-M3000 Stylus 5 Pack (spare pen for touch screen)	20 93 405 0102
Power Supply AC universal 5 V / 3 A	20 93 405 0103
RF-M3000 Docking Station Desktop	20 93 305 0101
RF-M3000 Docking Station Quad (4-fold incl. RJ45)	20 93 305 0102
RF-M3000 Cradle Vehicle Powered 12 V	20 93 305 0103
RF-M3000 Ram mounting system	20 93 305 0104
RF-M3000 Plastic pistol grip	20 93 705 0101
RF-M3000 Soft holster kit	20 93 705 0102

Ha-VIS RFID UHF wide range antenna

Features
- Compact design
- High read range
- Suitable for industrial environment
- Optimized for portal applications
- 69° aperture angle
- Antenna gain 8.5 dBic
- High IP 65 protection
- Suitable for outside areas
- TNC socket
- 865 - 870 MHz (EU) or 902 - 928 MHz (US)

Identification	Part. no.
RF-ANT-WR30-EU	20 93 201 0102
RF-ANT-WR30-US	20 93 201 0103

Accessoires	
RF-MOUNT-ANT-A	20 93 102 0103
RF-MOUNT-ANT-C	20 93 102 0101

Ha-VIS RFID UHF ruggedized wide range antenna, 30° aperture angle

Features
- Different aperture angles for azimuth and elevation planes (30° / 70°)
- Ruggedized housing
- Compact design
- High read range
- Antenna gain 11 dBic
- Suitable for industrial environment
- Optimized for portal applications
- High IP 65 protection
- Suitable for outside areas
- N socket
- 865 - 870 MHz (EU) or 902 - 928 MHz (US)

Identification	Part. no.
RF-ANT-WR80-30-EU	20 93 201 0203
RF-ANT-WR80-30-US	20 93 201 0204

Accessoires	
RF-MOUNT-ANT-B	20 93 102 0104

Ha-VIS RFID UHF mid range antenna

Features
- Very compact design
- Medium read range (0.2 m - 2 m)
- Suitable for industrial environment with near- and far-field applications
- 100° aperture angle
- Antenna gain 2.5 dBic
- High IP 67 protection
- Suitable for outside areas
- TNC socket
- 865 - 870 MHz (EU) or 902 - 928 MHz (US)

Identification	Part. no.
RF-ANT-MR20-EU	20 93 201 0301
RF-ANT-MR20-US	20 93 201 0302

Ha-VIS RFID UHF short mid range antenna

Features
- Very compact design
- Medium read range (0.2 m - 1 m)
- Worldwide applicable (860 - 930 MHz)
- 100° aperture angle
- High IP 67 protection
- Max. input power 1 W
- Ideally suitable for metallic environments because of -12 dBic@866 MHz
- TNC socket
- Montage on metal

Identification	Part. no.
RF-ANT-sMR20	20 93 201 0304

Ha-VIS RFID UHF ultra-low range antenna

Features
- Minimal size
- Extreme high spatial selectivity
- Suitable for industrial environment
- Optimized for near-field applications (< 5 cm)
- High IP 67 protection
- Suitable for outside areas
- TNC socket
- Worldwide applicable (860-930 MHz)

Identification	Part. no.
RF-ANT-LR10	20 93 201 0303

Ha-VIS RFID UHF low range antenna

Features
- Minimal size
- Extreme high spatial selectivity
- Suitable for industrial environment
- Optimized for muRata MAGICSTRAP®
- High IP 67 protection
- TNC socket

Identification	Part. no.
RF-ANT-µLR10-EU	20 93 201 0305
RF-ANT-µLR10-US	20 93 201 0306

Ha-VIS RFID standard antenna cable

Features
- 3 m standard cable
- TNC-SMA
- Attenuation 68 dB/100 m (@800 MHz)

Identification	Part. no.
Ha-VIS Coax SMA-TNC, RG58, 3 m	20 93 204 0101

Ha-VIS RFID low loss antenna cable

Features
- 3 m and 10 m low loss cable
- Attenuation 28 dB / 100 m (@800 MHz)
- Outer diameter 5.4 mm

Identification	Part. no.
Ha-VIS Coax SMA-TNC, LL 240 flex, 3 m	20 93 204 0102
Ha-VIS Coax SMA-TNC, LL 240 flex, 10 m	20 93 204 0103
Ha-VIS Coax SMA-N, LL 240 flex, 3 m	20 93 204 0104
Ha-VIS Coax SMA-N, LL 240 flex, 10 m	20 93 204 0105

Ha-VIS RFID heavy duty low loss antenna cable

Features
- 3 m and 10 m low loss cable
- Suitable for harsh environments
- Attenuation 22 dB / 100 m (@800 MHz)
- Outer diameter 10.3 mm
- TNC-N

Identification	Part. no.
Ha-VIS Coax TNC-N, RG 213, 3 m	20 93 204 0106
Ha-VIS Coax TNC-N, RG 213, 10 m	20 93 204 0107
Accessoires	
Adapter TNC-SMA	20 93 204 0301

Ha-VIS RFID heavy duty low loss antenna cable ECOFLEX 10

Features
- 25 m low loss cable
- Suitable for harsh environments
- Attenuation 12.5 dB/100 m (@800 MHz)
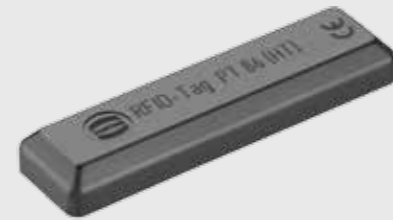- Outer diameter 10.2 mm
- SMA-N Connectors

Identefication	Part. no.
Ha-VIS Coax SMA-N, ECOFLEX 10, 25 m	20 93 204 0108

Ha-VIS RFID PT 86 (HT)

Features
- Functions on metal
- Rugged, chemical resistant housing
- EPC C1 Gen2 compatibility
- Protection class IP 69K
- Expanded memory

Identification	Part. no.
Ha-VIS RFID PT 86 (HT) - 512 Bit - global,10 units	20 92 641 0101
Ha-VIS RFID PT 86 (HT) - 512 Bit - global, 50 units	20 92 641 0102

Ha-VIS RFID VT Series (HT)

Features
- Functions on metal
- Rugged, chemical resistant housing
- EPC C1 Gen2 compatibility
- Protection class IP 69K
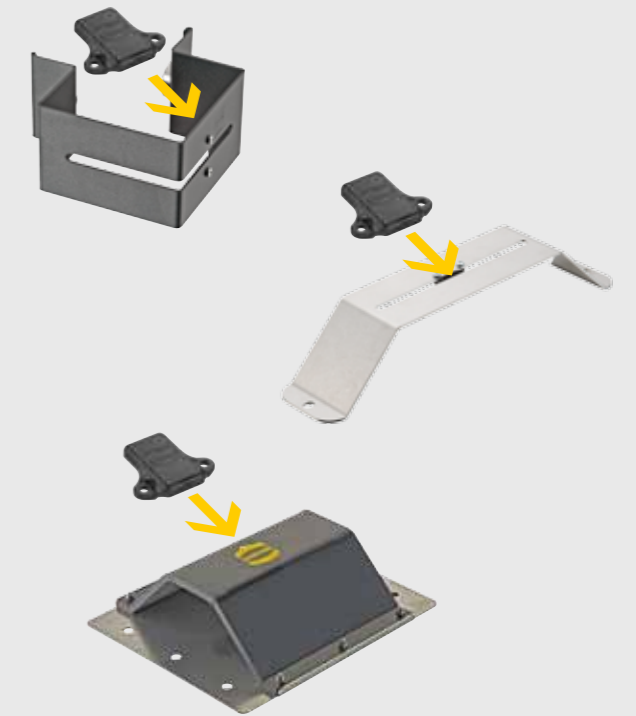- Expanded memory
- Flexible mounting

Identification	Part. no.
Ha-VIS RFID VT 86 (HT) - 512 Bit - global, 10 units	20 92 641 0201
Ha-VIS RFID VT 86 (HT) - 512 Bit - global, 50 units	20 92 641 0202
Ha-VIS RFID VT 86 s (HT) - 512 Bit - EU, 10 units	20 92 611 0201
Ha-VIS RFID VT 86 s (HT) - 512 Bit - EU, 50 units	20 92 611 0202
Ha-VIS RFID VT 92 s (HT) - 512 Bit - US/Asia, 10 units	20 92 621 0201
Ha-VIS RFID VT 92 s (HT) - 512 Bit - US/Asia, 50 units	20 92 621 0202
Ha-VIS RFID VT 86 I (HT) - 3,3 kBit - EU, 10 units (expected available Q4/2013)	on request
Ha-VIS RFID VT 86 I (HT) - 3,3 kBit - EU, 50 units. (expected available Q4/2013)	on request
Ha-VIS RFID VT 92 I (HT) - 3,3 kBit - US/Asia, 10 units (expected available Q4/2013)	on request
Ha-VIS RFID VT 92 I (HT) - 3,3 kBit - US/Asia, 50 units (expected available Q4/2013)	on request

Ha-VIS RFID SL 89 Set

Features
- Extremly high level of mechanical protection
- Protection class IP 69K
- EPC C1 Gen2 compatibility
- Expanded memory
- Customer specific shapes of metal pieces for individual customer requests
- High read ranges possible, > 15 m
- 512 Bit User Memory

Identification	Part. no.
Ha-VIS RFID SL 89 Set	On definition of metal piece
Ha-VIS RFID SL 89 Set antenna bracket	20 92 641 2600

Ha-VIS RFID CX Series (NT)

Features
- Can also be read in damp environments
- Rugged housing
- EPC C1 Gen2 compatibility
- Protection class IP 69K
- Expanded memory
- 512 Bit User Memory
- Global use possible

Identification	Part. no.
Ha-VIS RFID CT 89 (NT) 10 units	20 92 641 0301
Ha-VIS RFID CT 89 (NT) 50 units	20 92 641 0302
Ha-VIS RFID CF 89 (NT) 10 units	20 92 641 0401
Ha-VIS RFID CF 89 (NT) 50 units	20 92 641 0402
Ha-VIS RFID CS 89 (NT) 10 units	20 92 641 0501
Ha-VIS RFID CS 89 (NT) 50 units	20 92 641 0502

Ha-VIS RFID FT Series (NT)

Features
- Extreme mechanical robust
- Barcode and company logo possible
- Flexible mounting on different surfaces
- Adhesive mounting
- Variants for conducting / non-conducting surfaces
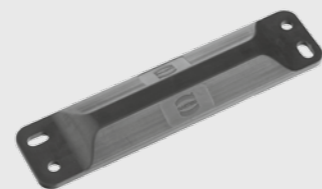- Global use is possible

Identification	Part. no.
Ha-VIS RFID FT 89 (NT), 50 units	20 92 641 0702
Ha-VIS RFID FT 89 (NT), 500 units	20 92 641 0703
Ha-VIS RFID FT 89 on metal (NT), 50 units	20 92 641 0752
Ha-VIS RFID FT 89 on metal (NT), 500 units	20 92 641 0753
Ha-VIS RFID FT 89 small (NT), 50 units	20 92 641 0802
Ha-VIS RFID FT 89 on small (NT), 500 units	20 92 641 0803
Label with customized printing	on request

Ha-VIS RFID LT Series (MT)

Features
- Variants for conducting (OM) / non-conducting (OnM) surfaces
- High read ranges
- EPC C1 Gen2 compatibility
- Protection class IP 69K
- Mechanically stable mounting

Identification	Part. no.
Ha-VIS RFID LT 86 s OM (MT) - 512 Bit - EU	on request
Ha-VIS RFID LT 92 s OM (MT) - 512 Bit - US/Asia	on request
Ha-VIS RFID LT 89 I OnM (MT) - 3,3 kBit - global	on request

Ha-VIS Middleware

Features
- Easy and fast integration of RFID Readers
- Configurable without programming effort
- Filtering, grouping and aggregation based on various tag infomation
- Application flow triggered by manual, digital IO or scheduled Events
- Report of cumulated data in standardized or customized formats
- Central RFID Reader management
- Advanced reading, writing, locking and muting of RFID Transponders
- Import of data e. g. passwords from different sources like caches, association tabel or random values is supported
- Conform to EPCglobal® ALE 1.1 standard

Identification	Part. no.
Ha-VIS Middleware Incl. XML subscriber and connector for one Ha-VIS RF-R500 RFID Reader	26 99 210 1110 00
Subscriber (Software side)	
MySQL Subscriber	26 99 220 4110 00
http Supscriber	26 99 220 5110 00
Connector (Hardware side)	
Connector for up to 5 RF-R500	26 99 230 1120 00
Connector for up to 15 RF-R500	26 99 230 1130 00
Connector for up to 25 RF-R500	26 99 230 1140 00
Connector for up to 50 RF-R500	26 99 230 1150 00
Connector for up to 5 RF-R200	26 99 230 3120 00
Connector for up to 15 RF-R200	26 99 230 3130 00
Connector for up to 25 RF-R200	26 99 230 3140 00
Connector for up to 50 RF-R200	26 99 230 3150 00
Connector for LLRP Reader	26 99 230 2120 00*

*Available in quarter 1/2014. So far the FX7400 and the FX9500 from Motorola are supported. An actual list of supported devices is available on our webside www.harting-rfid.com

Ha-VIS Application-Suite

Features
- Flexible application solutions
- Compatible with the Ha-VIS Middleware
- Easy and fast support of different end devices
- Platform independent applications (Windows CE, Windows, Android, iOS)
- Based on open standards like HTML 5

Identification	Part. no.
Ha-VIS Applikation-Suite Incl. Application-Suite Server and demo app for the Workabout Pro, Windows CE 6.0	26 99 310 1110 00*
Ha-VIS Applikation-Suite Client An actual list of supported devices is available on our webside www.harting-rfid.com	

* Available in quarter 1/2014

Service

- RFID Proof-of-Concept at the site of customer or in the RFID laboratory
- Configuration service for Ha-VIS RFID Reader and Middleware
- Commissioning at site of customer
- Consulting for RFID systems
- Trainings
- Telephone hotline
- Email support

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