Asset Management Tag





Table of Contents

Section 1:	Introduction	
1.1	Scope of Manual	1
1.2	Description	2
1.3	Specifications	
1.4	Education Services	3
Section 2:	Device Information	
Section 3:	Installation	
3.1	Mounting Considerations	
3.2	Installing a Casing Mounted Asset Management Tag	
3.3	Installing a Yoke Mounted Asset Management Tag	
3.4	Installing a Universal Mounted Asset Management Tag	8
Section 4:	Related Documents	
Section 5:	Parts Ordering	
Section 6:	Kits	

Table of Contents

May 2019 D104482X012

Section 1: Introduction

1.1 Scope of Manual

This instruction manual includes product specifications, reference materials, installation, and parts ordering information for the Emerson Asset Management Tag.

The instruction manual also describes using Asset Connect software to access information on the Asset Management Tag. Refer to the Asset Connect Quick Start Guide for information on how to use this downloadable application as well as information on requirements for the reader/writer, and PC or tablet.

Do not install, operate or maintain an Asset Management Tag without being fully trained and qualified in valve, actuator, valve accessory, and other applicable process equipment installation, operation, and maintenance. To avoid personal injury or property damage, it is important to carefully read, understand, and follow all the contents of this manual, including all safety cautions and warnings. If you have any questions about these instructions, contact your Emerson sales office before proceeding.

1 Introduction

1.2 Description

Asset Management Tags are intrinsically safe devices which use Radio Frequency Identification (RFID) technology to allow for digital storage, collection, and identification of equipment information. Asset Management Tags can be ordered as an accessory on an assembly or can be purchased individually for existing in-field equipment to be populated utilizing Asset Connect software or with the support of your Emerson sales office and service center.

A reader/writer device is needed to communicate with the Asset Management Tag using UHF RFID wireless technology. Information gathered from the Asset Management Tag which has been read by the reader/writer will then be shared to the Asset Connect Software on either a PC or Tablet using Bluetooth wireless technology.



Figure 1 Equipment for reading/writing an Asset Management Tag

1. Asset Management Tag

2. Reader/Writer

Reader/Writer not available for sale from Emerson Automation Solutions Additional information can be found in the Quick Start Guide

3. PC or Tablet

Asset Connect software is designed specifically for the Asset Management Tag Compatible with Windows 7 or Windows 10 operating systems Bluetooth radio and applicable drivers must be installed

Introduction 2

D104482X012 May 2019

Specifications 1.3

Specifications for the Asset Management Tag are listed in table 1.

Table 1. **Specifications**

Temperature Limits	Operating: -40°C to 85°C (-40°F to 185°F)		
	Storage: -40°C to 90°C (-40°F to 194°F)		
Operating Frequency	860-960 MHz (Worldwide)		
Construction Materials	Tag Housing: PPS, Polyphenylene Sulfide		
	Mounting Bracket: 316 SST		
	Mounting Screws (Tag Housing to Mounting Bracket): Steel with RoHS Compliant Zinc Chromate		
Mounting Styles	Casing		
	Yoke		
	Universal		
Minimum Read/Write Range Distance	20 ft (6.09 m) read range		
	1 ft (0.30 m) write range		
	Range dependent on reader/writer selected		
Hazardous Area Approvals	FM (US/Canada) – Intrinsically Safe (refer to D104401X012)		
	ATEX – Intrinsically Safe (refer to D104402X012)		
	IECEx – Intrinsically Safe (refer to D104403X012)		
Electrical Classifications	Type 4X, IP68		
Other Standards	UHF EPC Class 1 Gen 2		
	ISO/IED 18000-6C		
	GS1 EPC TDS 1.6		
	ATA Spec 2000		
	SAE AS5678		
	DIN 40050-9		

Education Services 1.4

For information on available courses for the Asset Management Tag, as well as a variety of other products and services, contact:

Emerson Automation Solutions Educational Services - Registration

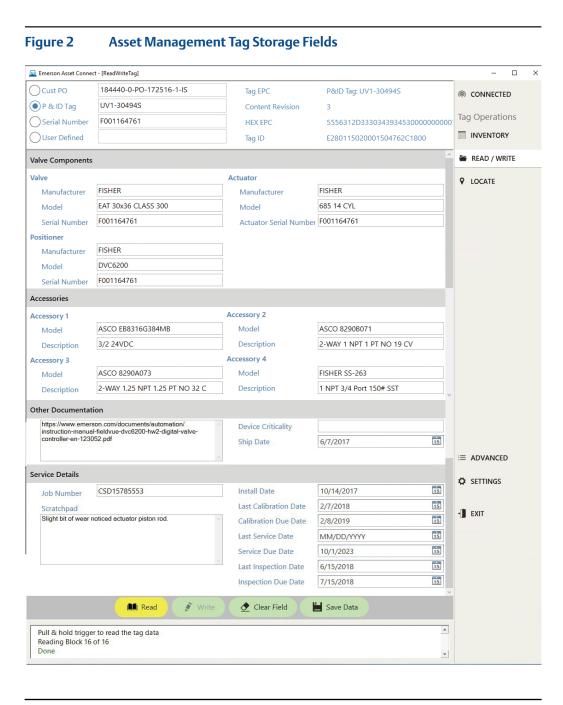
Phone: +1-641-754-3771 or +1-800-338-8158

e-mail: education@emerson.com emerson.com/education

3 Introduction

Section 2: Device Information

Available fields for stored information on the Asset Management Tag are shown below in figure 2.



Device Information 4

May 2019 D104482X012

Section 3: Installation

Asset Management Tags can be ordered as an accessory to be installed on an assembly or can be purchased for existing in-field equipment to be populated utilizing Asset Connect software or with the support of your Emerson sales office and service center.

If the Asset Management Tag assembly is being installed on process equipment in the field, observe all installation warnings, cautions, and notes provided in the Instruction Manuals for all applicable equipment.

Figure 3 Asset Management Tag Assembly



A WARNING

Avoid personal injury or damage to property from sudden release of pressure or uncontrolled process fluid. Before starting installation on, or removal from, existing in-field equipment:

- Always wear protective gloves, clothing, and eyewear when performing any installation or removal operations to avoid personal injury.
- Follow all warnings, cautions, notes, and instruction procedures provided in the Instruction Manuals for all applicable equipment to ensure hazardous conditions are not created.
- If mounting onto or removing from a valve, use bypass valves or completely shut off the process to isolate the valve from process pressure. Relieve process pressure on both sides of the valve. Drain the process media from both sides of the valve.
- If mounting onto or removing from an actuator casing, vent the power actuator loading pressure.
- If mounting onto or removing from other equipment containing process pressure or process fluid, relieve and isolate the equipment from process pressure and drain process media.
- Use lock-out procedures to be sure that the above measures stay in effect while you work on the equipment.
- Check with your process or safety engineer for any additional measures that must be taken to protect against process media.

The Asset Management Tag is pre-affixed to the bracket and must remain installed as an assembly for optimal read range. Three mounting styles have been engineered to optimize read range as well as provide mounting flexibility onto a wide range of equipment, reference table 2 for assembly part numbers.

Figure 4 Emerson Asset Management Tag shown on a Fisher™ easy-e™ with Fisher 667 size 45i Actuator and FIELDVUE™ DVC6200 Digital Valve Controller

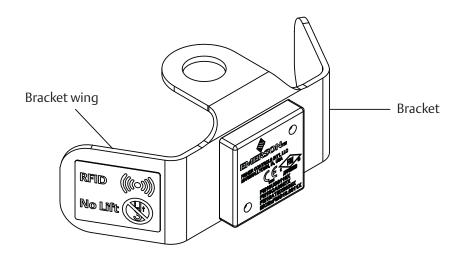


3.1 Mounting Considerations

- Installation of the Asset Management Tag assembly must take into consideration line-of-sight when using the reader/writer to communicate.
- To avoid negatively impacting the read/write distance, the Asset Management Tag assembly should not be obscured by tubing or other metal equipment and should not be installed such that the wings of the bracket touch any metal surface.

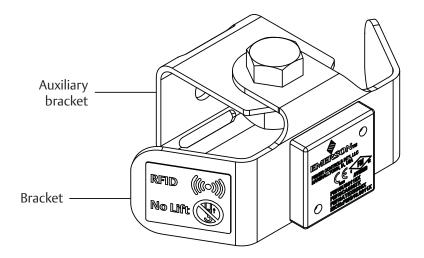
3.2 Installing a Casing Mounted Asset Management Tag

Figure 5 Casing Mounted Asset Management Tag Assembly



- 1. Review Mounting Considerations when planning installation location of Asset Management Tag.
- 2. When available, mount using a longer casing bolt, and mount below the lower casing with the bracket pointed downward and facing outward. Reference figures 3 and 4 above.
- 3. Ensure that mounting of the Asset Management Tag, does not prevent full thread engagement of the casing bolting. If mounting the tag prevents complete thread engagement, mount using a longer casing bolt of the same material specification.
- 4. Ensure casing bolt is tightened per torque specifications in the applicable product instruction manual.

Figure 6 Yoke and Universal Mounting



3.3 Installing a Yoke Mounted Asset Management Tag

- 1. Review Mounting Considerations when planning installation location of Asset Management Tag.
- 2. Mount auxiliary bracket to available actuator yoke connection.

Install Asset Management Tag assembly to the mounted auxiliary bracket by placing bolt through the top and follow with washer and nut on the bottom side of the auxiliary bracket and tighten.

3.4 Installing a Universal Mounted Asset Management Tag

- 1. Review Mounting Considerations when planning installation location of Asset Management Tag.
- 2. Install auxiliary bracket to equipment with user supplied wire or strap.

Install Asset Management Tag assembly to the mounted auxiliary bracket by placing bolt through the top and follow with washer and nut on the bottom side of the auxiliary bracket and tighten.

Section 4: Related Documents

- Product Bulletin: Asset Management Tag
- Quick Start Guide: Asset Connect Software

All documents are available at Emerson.com/AssetTag

Section 5: Parts Ordering

A WARNING

Use only genuine Emerson replacement parts. Components that are not supplied by Emerson should not, under any circumstances, be used in any Emerson product. Use of components not supplied by Emerson may void your warranty, might adversely affect the performance of the product, and could cause personal injury or property damage.

Section 6: Kits

The Asset Management Tag is pre-affixed to the bracket and must remain installed as an assembly for optimal read range and ease of installation for all three mounting styles. Reference the installation section of this manual for additional details.

NOTE:

Contact your Emerson sales office for part ordering information.

Table 2. Instruction Manual Table

Brand	Actuator Model	Actuator Size	Part Number	Mounting Type	List Price
Fisher	585C	All	GE89292X012	Yoke	\$100
	655	A	GE09292AU12	TORE	
		В	GE89295X012	Casing	
		32, 33, 34			
		42, 43, 44			
		35, 36	GE89294X012		
		45, 46			
	656	All	GE89295X012		
	657, 657-4	30/30i	GE89295X012		
		34/34i			
		40/40i			
		46/46i			
		60/60i			

9 Kits

D J	A -44 B/II - I	A - + + C:	David Namelan	B4	1:-4 D.:
Brand	Actuator Model		Part Number	Mounting Type	List Price
		45/45i			
		50/50i	GE89294X012		
	657, 657-4	70/70i			
		87	CE0020CV012		
		80	GE89296X012		
		100	GE89297X012		
		30/30i	GE89295X012	Casing	
		34/34i			
		40/40i			
		46/46i			
		60/60i			
	667, 667-4	76/76i			
	ŕ	45/45i			
		50/50i	GE89294X012		
		70/70i			
		87			
		80	GE89296X012		
		100	GE89297X012	_	
	685, 685SE/SR	12-26	GE89293X012	Universal	
	1061	All	GE89292X012	Yoke	
	2052	1	GE89299X012	Casing	\$100
		2			
Fisher		3	GE91686X012		
	3025	P460	GE91686X012		
		P462			
		P462-200			
		P900			
		16	GE94806X012		
		32	GE89298X012		
	Baumann™	54			
		70	GE91686X012		
		SV	GE89293X012	Universal	
	D3	All pneumatic	GE94805X012	Casing	
	D4				
	easy-Drive™	All	GE89291X012		
	FieldQ		65003031/043	Universal Casing	
	Bettis™ G-Series (G	All	GE89293X012		
	Series DA, G Series SR)	225			
	CV	225	CE01C0CV013		
	GX	750	GE91686X012		
		1200			
	Lever-Lock	All			
	M-Series	Series		Universal	
	All Other Actuator	All	GE89293X012		
	Types				

Kits 10

EMERSON ELECTRIC CO. GLOBAL HEADQUARTERS

8000 West Florissant Avenue St. Louis, Missouri, 63136 United States T +1 888 889 9170 ContactUs@Emerson.com Emerson.com/FinalControl © 2019 Emerson Electric Co. All rights reserved. The Emerson logo is a trademark and service mark of Emerson Electric Co. All other marks are property of their respective owners. The contents of this publication are presented for information purposes only, and while effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice. Responsibility for proper selection, use and maintenance of any product or service remains solely with the purchaser and end user. D104482X012

