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Feedback Module

UMAC ACC-84E

August 31, 2020

This specification sheet is provided to the customers as a reference.

REVISION HISTORY				
Rev	**Date**	**Prepared by**	**Reviewed by**	**Approved by**
A	August 31, 2020	SM	RN	RN

General Description

The ACC-84E is a UMAC rack accessory that provides various encoder feedback serial interface protocols as well as other links.

Part Number Designation

PRODUCT: ACC-84E

UMAC ACC-84E

3	-	3	9	2	7	A	-	0	0	-	0	0			-		2		
												G	H			I		K	L

G H

02 – SSI Protocol
03 – EnDat 2.2 Protocol
06 – Yaskawa Sigma II & III & V
07 – Tamagawa Protocol
08 – Panasonic Protocol
09 – Mitutoyo Protocol
0B – BISS-B & C Protocol

Serial Protocol Options

* If Any **Additional Option** is required, contact factory for digits **K** and **L** **(Factory Assigned** digits).

I

B – BLACK Front, top and bottom plates **(Standard)**

F - BLACK Front plate only **Order as Spare Only**

R – SILVER Front, top and bottom plates

A - SILVER Front plate only **Order as Spare Only**

Plate Options

K L

00 - No **Additional*** Options
xx - Factory assigned digits for **Additional*** Options

Factory Assigned Options

Terms and Conditions Agreement

Please observe that Delta Tau Data Systems, Inc. set the Terms and Conditions for use, storage, disposal and so on (including precautionary statements and warning and so on described in instruction manuals, catalogs and specifications of the products).

The Terms and Conditions hereunder are applied to the products regardless of where they are purchased, unless otherwise is specifically agreed. However, if there is any inconsistency between the Terms and Conditions and the items described in this product specification, the items described in this product specification are taken precedence.

1. Definition

The definitions used in these Terms and Conditions are as follows:

(1) *Catalogues*: *Delta Tau* general catalogue "BEST", electronic/mechanism components general catalogue and other catalogues, specifications, instructions and manuals of the products, including electronically provided information available on the *Omron* website, etc.

(2) *Usage conditions*: Usage conditions, rating, performance, operating environment, handling instructions, cautions, prohibited use, etc. of the products described in specifications, documentations or manuals.

(3) *Customer application*: Application of the products by customers which include embedding and/or using the products in their parts/components, electronic substrates, devices, equipment or systems manufactured by customers.

(4) *Fitness*: *Customer application* for the products (a)Fitness, (b)performance, (c) non-infringement of third-party intellectual property, (d) compliance with laws and regulations and (e)conformity to various standards.

2. Notes on *Catalogues*

Attention is required to the following points for information obtained from *Catalogues.*

(1) Rated values and performance values are the product of tests performed for separate single conditions, including but not limited to temperature and humidity. *Delta Tau* does not warrant rated values and performance values for multiple combined conditions.

(2) Reference data are provided for reference only. *Delta Tau* does NOT warrant that the products work properly at all times in the range of reference data.

(3) Application examples are provided for reference only. *Delta Tau* does NOT warrant the *Fitness* of the products under such applications.

(4) *Delta Tau* may discontinue the production of the products or change the specifications of them for the purpose of improving such products or other reasons entirely at its own discretion.

3. Precautions

Please be aware of and accept the following when you introduce or use the products:

(1) Please use the products in compliance with *usage conditions* including rating and performance limits.

(2) Please confirm the *fitness* of the products in your application and use your own judgment to determine the appropriateness of using them in such application. *Delta Tau* shall not warrant the *fitness* of the products in *customer applications*.

(3) Please confirm that the products are properly wired and installed for their intended use in your overall system.

(4) When using the products, please make sure to (i) maintain a margin of safety between the published rated and performance values, and the application requirements, (ii) design to minimize risks to *customer application* in case of failure of the products, such as introducing redundancy, (iii) introduce system-wide safety measures to notify risks to users, and (iv) conduct regular maintenance on the products and *customer application*.

(5) *Delta Tau* shall not be responsible and/or liable for any loss, damage, or expenses directly or indirectly resulting from the infection of the products, any software installed thereon or any computer equipment, computer programs, networks, databases or other proprietary material connected thereto by distributed denial of service attack, computer viruses, other technologically harmful material and/or unauthorized access.
It shall be the users sole responsibility to determine and use adequate measures and checkpoints to satisfy the users particular requirements for (i) antivirus protection, (ii) data input and output, (iii) maintaining a means for reconstruction of lost data, (iv) preventing the Products and/or software installed thereon from being infected with computer viruses and (v) protecting the Products from unauthorized access.

(6) The products are designed and manufactured as general-purpose products for use in general industrial applications. They are not intended to be used in the following critical applications. If you are using the products in the following applications, *Delta Tau* shall not provide any warranty for such the products, unless otherwise specifically agreed or unless the specific applications are intended by *Delta Tau*.

(a) Applications with stringent safety requirements, including but not limited to nuclear power control equipment, combustion equipment, aerospace equipment, railway equipment, elevator/lift equipment, amusement park equipment, medical equipment, safety devices and other applications that could cause danger/harm to people's body and life.

(b) Applications that require high reliability, including but not limited to supply systems for gas, water and electricity, etc., 24 hour continuous operating systems, financial settlement systems and other applications that handle rights and property.

(c) Applications under severe condition or in severe environment, including but not limited to outdoor equipment, equipment exposed to chemical contamination, equipment exposed to electromagnetic interference and equipment exposed to vibration and shocks

(d) Applications under conditions and environment not described in *Catalogues*

(7) In addition to the applications listed from (a) to (d) above, the products are not intended for use in vehicles designed human transport (including two wheel vehicles). Please do NOT use the products for vehicles designed human transport. Please contact the *Omron* sales staff for information on our automotive line of products.

4. Warranty Terms and Conditions

The terms and conditions for warranty of the products are as follows:

(1) Warranty period: *Delta Tau* warrants that products shall be free of material defects and or workmanship for a period of one year after the date of purchase.
(Excepting in the case where there is additional description in *Catalogues*)

(2) Coverage: *Delta Tau*, at its own discretion, will provide one of the following two services for malfunctioning the products:
- **(a) Free repair of the malfunctioning the products at a *Delta Tau* maintenance service location.**
  (No repair support is available for electronic components)
- **(b) Free replacement of the malfunctioning the products with the same number of replacement/alternative products.**

(3) Exceptions: *Delta Tau* will not cover the products under its warranty if the cause of the malfunction falls under any of the following.
- **(a) Usage in a manner other than the original intended use for the products.**
- **(b) Usage outside of the usage *conditions*.**
- **(c) Usage of the product against the conditions described in "3. Precautions"**
- **(d) Modification or repair made to the product by other than *Delta Tau* personnel.**
- **(e) Software program embedded by other than *Delta Tau* or usage of such software.**
- **(f) Cause which could not have been foreseen with the level of science and technology at the time of shipping from *Delta Tau*.**
- **(g) Causes originating from other than *Delta Tau* or the products (including causes such as, but not limited to, natural disasters).**

5. Limitation of Liability

The warranty set out in these Terms and Conditions is the whole and sole liability for the products. There are no other warranties, expressed or implied. *Delta Tau* and the distributors of the products are not liable for any damages which may arise from or be related to the products.

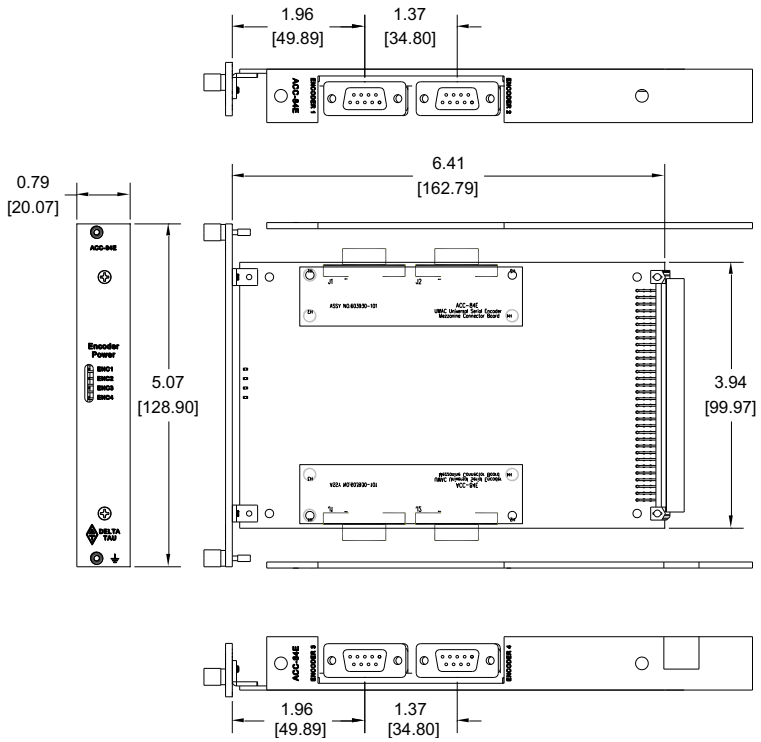
6. Export Controls

Customers of the products shall comply with all applicable laws and regulations of Japan and/or other relevant countries with regard to security export control, when exporting the products and/or technical documents or providing such products and/or documents to a non-resident. *Delta Tau* may not provide customers with the products and/or technical documents should they fail to comply with such laws and regulations.

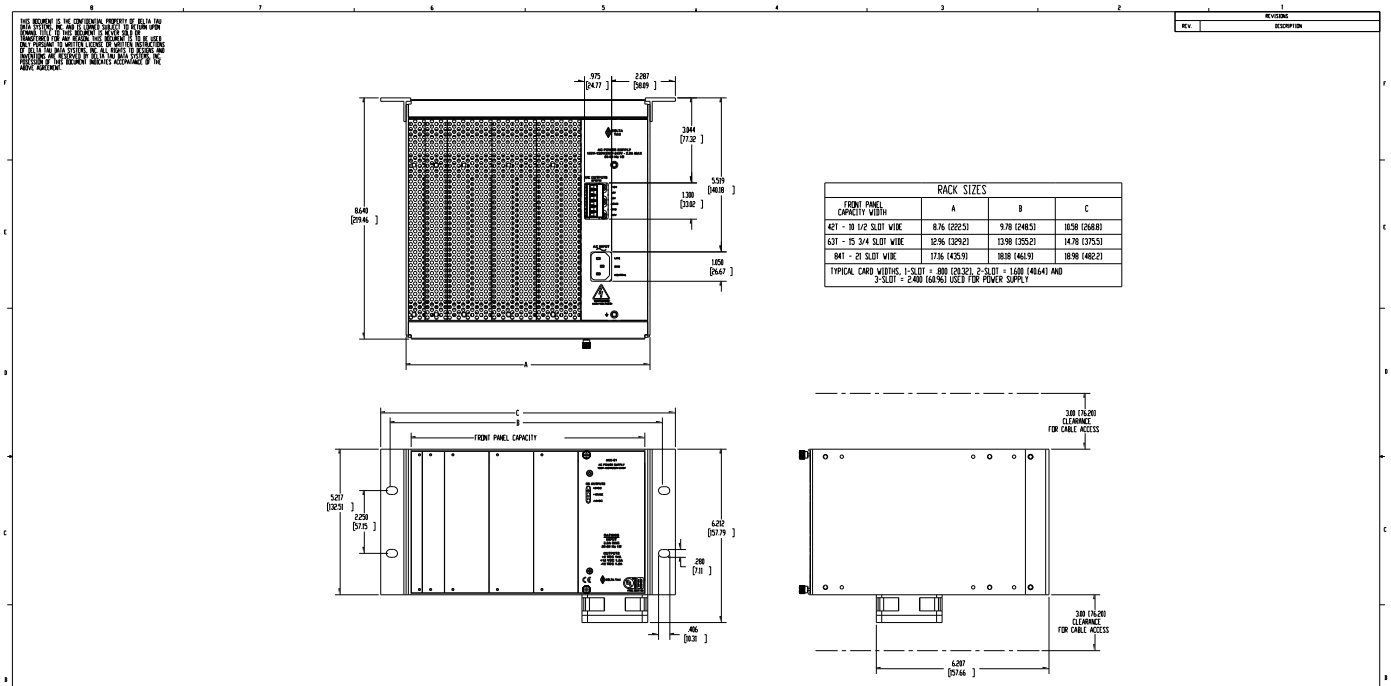
Specifications

1. Classification	
1.1 Name	ACC-84E
1.2 Type	Universal Serial Encoder Interface
2. Construction	
2.1 Dimensions	Refer to the dimensions in the drawings below.
2.2 Enclosure	UMAC rack (panel mount)
2.3 Grounding	Ground to 100 Ω or less
3. Mechanical	
3.1 Weight	192 g
4. Ratings	
4.1 Power Consumption	5V @ 360mA (±10%) +15V @ 0 A -15V @ 0 A
5. Performance	
5.1 Motion Control	Supports up to 4 channels of serial encoders.
5.2 Supported protocols	• SSI Synchronous Serial Interface • EnDat 2.2 interface from HEIDENHAIN • Yaskawa Sigma II/III/V feedback support • Tamagawa OAS and SA Absolute Encoders • Panasonic A4 and A5 Encoder Series • Mitutoyo ENSIS® high-speed serial protocol (AT503/AT503A/ST70X) • BiSS B/C Unidirectional • Matsushita • Mitsubishi Serial Encoder Protocol for HG-X Servo Motors • XY2-100 Serial Link
6. Environmental Test	
6.1 Ambient temperature	15 to 35°C
6.2 Humidity	30% to 75%
7. Environmental Storage	
7.1 Ambient temperature	-25 to 70°C with no condensation and icing
7.2 Atmosphere	Must be free from corrosive gases.
8. Environmental Operation	
8.1 Ambient operating temperature	0 to 55°C
8.2 Ambient operating humidity	10% to 95% with no condensation and icing
8.3 Atmosphere	Must be free from corrosive gases.
9. General Precautions	
9.1 Safety Precautions	Please refer to safety precautions sheet (2D0-000010-550)

ACC-84E Dimensions



UMAC Rack Dimensions



RACK SIZES			
FRONT PANEL CAPACITY WIDTH	A	B	C
42T - 10 1/2 SLOT WIDE	8.76 (222.5)	9.78 (248.5)	10.58 (268.8)
63T - 15 3/4 SLOT WIDE	12.96 (329.2)	13.98 (355.2)	14.78 (375.5)
84T - 21 SLOT WIDE	17.16 (435.9)	18.18 (461.9)	18.98 (482.2)
TYPICAL CARD WIDTHS, 1-SLOT = .800 [20.32], 2-SLOT = 1.600 [40.64] AND 3-SLOT = 2.400 [60.96] USED FOR POWER SUPPLY			

Part Number	Description	A	B	C
5-4269-00-0610-B0000	UMAC ACC-R1,INTEGRATED RACK WITH 6 SLOT BACKPLANE AND POWER SUPPLY W/POWER CORD (SEE DWG), BLACK	8.76 (222.5)	9.78 (248.5)	10.58 (268.8)
5-4269-00-0610-XX00	UMAC ACC-R1 SUB-ASSEMBLY, 10 SLOT INTEGRATED RACK WITH 6 SLOT BACKPLANE AND 55C POWER SUPPLY, NO BLANK PLATES	12.96 (329.2)	13.98 (355.2)	14.78 (375.5)
5-4269-0C-0610-B0000	UMAC ACC-R1, INTEGRATED 10 1/2 SLOT RACK WITH 6 SLOT BACKPLANE AND 55C POWER SUPPLY W/POWER CORD (SEE DWG), BLACK	17.16 (435.9)	18.18 (461.9)	18.98 (482.2)
5-4269-24-0610-B0000	UMAC ACC-RF1, 10 SLOT INTEGRATED RACK WITH 6 SLOT BACKPLANE AND 24 VDC POWER SUPPLY, BLACK	8.76 (222.5)	9.78 (248.5)	10.58 (268.8)
5-4269-00-1215-B0000	UMAC ACC-R2, INTEGRATED 15 3/4 SLOT RACK WITH 12 SLOT BACKPLANE AND 55C POWER SUPPLY W/POWER CORD (63T) (SEE DWG) BLACK	12.96 (329.2)	13.98 (355.2)	14.78 (375.5)
5-4269-0C-1215-B0000	UMAC ACC-R2, INTEGRATED 15 3/4 SLOT RACK WITH 12 SLOT BACKPLANE AND 55C POWER SUPPLY W/POWER CORD (63T) (SEE DWG) BLACK	12.96 (329.2)	13.98 (355.2)	14.78 (375.5)
5-4269-24-1215-B0000	UMAC ACC-RF1, 15 3/4 SLOT INTEGRATED RACK WITH 10 SLOT BACKPLANE AND 24 VDC POWER SUPPLY, BLACK	12.96 (329.2)	13.98 (355.2)	14.78 (375.5)
5-4269-F0-1215-F0100	UMAC ACC-R2, 15 3/4 SLOT RACK WITH 12 SLOT BACKPLANE AND POWER SUPPLY W/POWER CORD (63T), BLACK FRONT MOUNT	12.96 (329.2)	13.98 (355.2)	14.78 (375.5)
5-4269-FC-1215-F0100	UMAC ACC-R2, INTEGRATED 15 3/4 SLOT RACK WITH 12 SLOT BACKPLANE AND 55C POWER SUPPLY W/POWER CORD (63T) (SEE DWG) BLACK FACEPLATE ONLY, FRONT MOUNT	12.96 (329.2)	13.98 (355.2)	14.78 (375.5)
5-4269-00-1821-B0000	UMAC ACC-R3,INTEGRATED RACK WITH 18 SLOT BACKPLANE AND POWER SUPPLY W/POWER CORD (84T) (SEE DWG), BLACK	17.16 (435.9)	18.18 (461.9)	18.98 (482.2)
5-4269-00-1821-BXX00	UMAC ACC-R3,INTEGRATED RACK WITH 18 SLOT BACKPLANE AND POWER SUPPLY (55C), NO POWER CORD, NO BLANK FRONT AND TOP/BOTTOM PLATES	17.16 (435.9)	18.18 (461.9)	18.98 (482.2)
5-4269-0C-1821-B0000	UMAC ACC-R3, INTEGRATED 21 SLOT RACK WITH 18 SLOT BACKPLANE AND 55C POWER SUPPLY W/POWER CORD (84T) (SEE DWG), BLACK	17.16 (435.9)	18.18 (461.9)	18.98 (482.2)
5-4269-24-1821-B0000	UMAC ACC-RF1, 21 SLOT INTEGRATED RACK WITH 18 SLOT BACKPLANE AND 24 VDC POWER SUPPLY, BLACK	17.16 (435.9)	18.18 (461.9)	18.98 (482.2)

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REVISIONS	
REV.	DESCRIPTION

RoHS: Yes
REACH: Unaffected

APPROVALS	DATE
Nick Gonez	07-29-2020

DELTA TAU DATA SYSTEMS, INC
21314 Lassen St, Chatsworth CA 91311

ACC-R1, UMAC RACK WITH 6 SLOT BACKPLANE AND POWER SUPPLY (42T)

SIZE	DWG. NO.	Revision
D	5-4269-xx-0610-xxxxx	-

SCALE: 2/3 | WEIGHT: *lb | SHEET 1 OF 1

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