

# Unicode™ 2 Series Accessoires: Ammeters

## Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2  
Notable: UKEX, INMETRO Certified

### Applications

- Suitable for use with certified Ex e enclosures for control equipment in industrial processes.

### Features

- Panel mounted version with metal support 48x48mm
- DIN rail mounted (TS35) and panel mounted version 72x72mm

### Technical Data

- Rated Voltage: 300 V for 48x48mm and 72x72 mm
- Frequency: 45 to 65 at 400 Hz
- Consumption: 0.4 VA for 1A and 0.6VA for 5A
- Permanent overload: 1.2 In to 1.6
- Instantaneous overload: 10 In/5s
- Terminal connections: M4 for size 48x48; M5 for size 72x72
- Direct connections: up to 2,5mm<sup>2</sup>
- Connections by lugs : up to 4mm<sup>2</sup>

### ATEX/IECEx Certifications and Compliances

- Certification Type: U2AE
- Gas: Zone 1 and 2
- Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
- Type of Protection: Ex eb IIC Gb
- Service Temperature: -25°C to +80°C (-13°F to + 176°F)
- ATEX Certificate: LCIE 13 ATEX 3074U
- IECEx Certificate: IECEx LCIE 13.0059U



AC Ammeter

### Certification UKEX

— UKEX Certificate: CML 21UKEX3198U

### Certification INMETRO

— INMETRO Certificate: BVC22.4128-U

### AC Ammeter — 48 mm x 48 mm (1.89" x 1.89")

Connection on current transformer — Deflection 90° — Red adjustable index — Accuracy class 1.5 — Square barrel

Description	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
<b>Rail Mounted</b>			
1A C.T. 2 x F.L.C. with 0-1-2 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F2JR
1A C.T. 3 x F.L.C. with 0-1-3 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F3JR
1A C.T. 5 x F.L.C. with 0-1-5 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F5JR
1A C.T. 6 x F.L.C. with 0-1-6 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F6JR
5A C.T. 2 x F.L.C. with 0-5-10 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F2JR
5A C.T. 3 x F.L.C. with 0-5-15 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F3JR
5A C.T. 5 x F.L.C. with 0-5-25 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F5JR
5A C.T. 6 x F.L.C. with 0-5-30 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F6JR
<b>Panel Mounted</b>			
1A C.T. 2 x F.L.C. with 0-1-2 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F2JP
1A C.T. 3 x F.L.C. with 0-1-3 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F3JP
1A C.T. 5 x F.L.C. with 0-1-5 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F5JP
1A C.T. 6 x F.L.C. with 0-1-6 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F6JP
5A C.T. 2 x F.L.C. with 0-5-10 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F2JP
5A C.T. 3 x F.L.C. with 0-5-15 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F3JP
5A C.T. 5 x F.L.C. with 0-5-25 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F5JP
5A C.T. 6 x F.L.C. with 0-5-30 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F6JP
<b>Window for Ammeter 48 mm x 48 mm (1.89" x 1.89")</b>	0.1 (0.22)	0.4 (24.4)	CA48W

# Unicode™ 2 Series Accessoires: Ammeters

## Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2  
 Notable: UKEX, INMETRO Certified

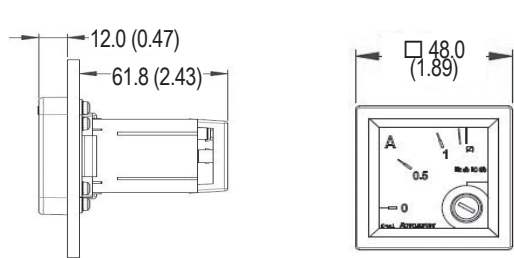
### AC Ammeter — 72 mm x 72 mm (2.83" x 2.83")

Connection on current transformer — Deflection 90° — Red adjustable index — Accuracy class 1.5 — Square barrel

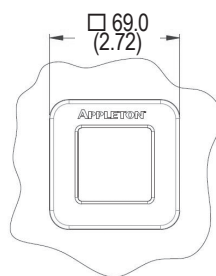
Description	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
<b>Rail Mounted</b>			
1A C.T. 2 x F.L.C. with 0-1-2 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F2JR
1A C.T. 3 x F.L.C. with 0-1-3 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F3JR
1A C.T. 5 x F.L.C. with 0-1-5 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F5JR
1A C.T. 6 x F.L.C. with 0-1-6 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F6JR
5A C.T. 2 x F.L.C. with 0-5-10 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F2JR
5A C.T. 3 x F.L.C. with 0-5-15 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F3JR
5A C.T. 5 x F.L.C. with 0-5-25 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F5JR
5A C.T. 6 x F.L.C. with 0-5-30 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F6JR
<b>Panel Mounted</b>			
1A C.T. 2 x F.L.C. with 0-1-2 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F2JP
1A C.T. 3 x F.L.C. with 0-1-3 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F3JP
1A C.T. 5 x F.L.C. with 0-1-5 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F5JP
1A C.T. 6 x F.L.C. with 0-1-6 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F6JP
5A C.T. 2 x F.L.C. with 0-5-10 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F2JP
5A C.T. 3 x F.L.C. with 0-5-15 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F3JP
5A C.T. 5 x F.L.C. with 0-5-25 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F5JP
5A C.T. 6 x F.L.C. with 0-5-30 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F6JP
<b>Window for Ammeter 72 mm x 72 mm (2.83" x 2.83")</b>	0.2 (0.44)	0.6 (36.6)	CA72W

### Dimensions in Millimeters (Inches)

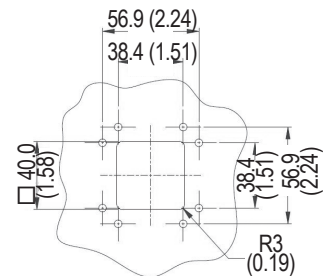
ATEX/IECEx Ammeter 48 mm x 48 mm (1.89" x 1.89")



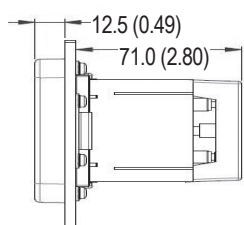
Window for Ammeter



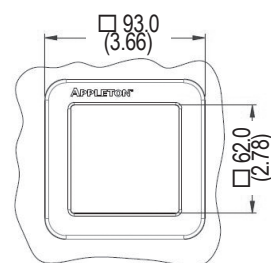
Drilling Information



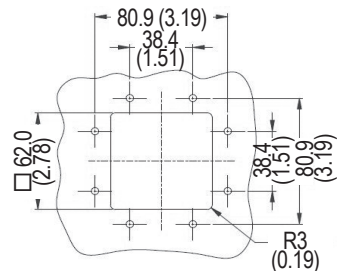
AC Ammeter — 72 mm x 72 mm (2.83" x 2.83")



Window for Ammeter



Drilling Information



# Unicode™ 2 Series Accessoires: Ammeters

## Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2  
Notable: UKEX, INMETRO Certified

### Interchangeable Dials for Ammeters ATEX/IECEx Ammeter 48 mm x 48 mm (1.89" x 1.89") ①

Scale	Catalog Number	Scale	Catalog Number	Scale	Catalog Number
<b>Current Transformer 1 A, 2 x In</b>		<b>Current transformer 1 A, 6 x In</b>		<b>Current transformer 5 A, 5 x In</b>	
0 - 5 - 10 A	18442Q51-101	0 - 5 - 30 A	18442Q54-101	0 - 5 - 25 A	18442Q53-501
0 - 10 - 20 A	18442Q51-102	0 - 10 - 60 A	18442Q54-102	0 - 10 - 50 A	18442Q53-502
0 - 15 - 30 A	18442Q51-103	0 - 15 - 90 A	18442Q54-103	0 - 15 - 75 A	18442Q53-503
0 - 20 - 40 A	18442Q51-104	0 - 20 - 120 A	18442Q54-104	0 - 20 - 100 A	18442Q53-504
0 - 25 - 50 A	18442Q51-105	0 - 25 - 150 A	18442Q54-105	0 - 25 - 125 A	18442Q53-505
0 - 30 - 60 A	18442Q51-106	0 - 30 - 180 A	18442Q54-106	0 - 30 - 150 A	18442Q53-506
0 - 40 - 80 A	18442Q51-107	0 - 40 - 240 A	18442Q54-107	0 - 40 - 200 A	18442Q53-507
0 - 50 - 100 A	18442Q51-108	0 - 50 - 300 A	18442Q54-108	0 - 50 - 250 A	18442Q53-508
0 - 60 - 120 A	18442Q51-109	0 - 60 - 360 A	18442Q54-109	0 - 60 - 300 A	18442Q53-509
0 - 75 - 150 A	18442Q51-110	0 - 75 - 450 A	18442Q54-110	0 - 75 - 375 A	18442Q53-510
0 - 100 - 200 A	18442Q51-111	0 - 100 - 600 A	18442Q54-111	0 - 100 - 500 A	18442Q53-511
0 - 125 - 250 A	18442Q51-112	0 - 125 - 750 A	18442Q54-112	0 - 125 - 625 A	18442Q53-512
0 - 150 - 300 A	18442Q51-113	0 - 150 - 900 A	18442Q54-113	0 - 150 - 750 A	18442Q53-513
0 - 200 - 400 A	18442Q51-114	0 - 200 - 1200 A	18442Q54-114	0 - 200 - 1000 A	18442Q53-514
0 - 250 - 500 A	18442Q51-115	0 - 250 - 1500 A	18442Q54-115	0 - 250 - 1250 A	18442Q53-515
<b>Current Transformer 1 A, 3 x In</b>		<b>Current transformer 5 A, 2 x In</b>		<b>Current transformer 5 A, 6 x In</b>	
0 - 5 - 15 A	18442Q52-101	0 - 5 - 10 A	18442Q52-501	0 - 5 - 30 A	18442Q54-501
0 - 10 - 30 A	18442Q52-102	0 - 10 - 20 A	18442Q52-502	0 - 10 - 60 A	18442Q54-502
0 - 15 - 45 A	18442Q52-103	0 - 15 - 30 A	18442Q52-503	0 - 15 - 90 A	18442Q54-503
0 - 20 - 60 A	18442Q52-104	0 - 20 - 40 A	18442Q52-504	0 - 20 - 120 A	18442Q54-504
0 - 25 - 75 A	18442Q52-105	0 - 25 - 50 A	18442Q52-505	0 - 25 - 150 A	18442Q54-505
0 - 30 - 90 A	18442Q52-106	0 - 30 - 60 A	18442Q52-506	0 - 30 - 180 A	18442Q54-506
0 - 40 - 120 A	18442Q52-107	0 - 40 - 80 A	18442Q52-507	0 - 40 - 240 A	18442Q54-507
0 - 50 - 150 A	18442Q52-108	0 - 50 - 100 A	18442Q52-508	0 - 50 - 300 A	18442Q54-508
0 - 60 - 180 A	18442Q52-109	0 - 60 - 120 A	18442Q52-509	0 - 60 - 360 A	18442Q54-509
0 - 75 - 225 A	18442Q52-110	0 - 75 - 150 A	18442Q52-510	0 - 75 - 450 A	18442Q54-510
0 - 100 - 300 A	18442Q52-111	0 - 100 - 200 A	18442Q52-511	0 - 100 - 600 A	18442Q54-511
0 - 125 - 375 A	18442Q52-112	0 - 125 - 250 A	18442Q52-512	0 - 125 - 750 A	18442Q54-512
0 - 150 - 450 A	18442Q52-113	0 - 150 - 300 A	18442Q52-513	0 - 150 - 900 A	18442Q54-513
0 - 200 - 600 A	18442Q52-114	0 - 200 - 400 A	18442Q52-514	0 - 200 - 1200 A	18442Q54-514
0 - 250 - 750 A	18442Q52-115	0 - 250 - 500 A	18442Q52-515	0 - 250 - 1500 A	18442Q54-515
<b>Current transformer 1 A, 5 x In</b>		<b>Current transformer 5 A, 3 x In</b>			
0 - 5 - 25 A	18442Q53-101	0 - 5 - 15 A	18442Q52-501		
0 - 10 - 50 A	18442Q53-102	0 - 10 - 30 A	18442Q52-502		
0 - 15 - 75 A	18442Q53-103	0 - 15 - 45 A	18442Q52-503		
0 - 20 - 100 A	18442Q53-104	0 - 20 - 60 A	18442Q52-504		
0 - 25 - 125 A	18442Q53-105	0 - 25 - 75 A	18442Q52-505		
0 - 30 - 150 A	18442Q53-106	0 - 30 - 90 A	18442Q52-506		
0 - 40 - 200 A	18442Q53-107	0 - 40 - 120 A	18442Q52-507		
0 - 50 - 250 A	18442Q53-108	0 - 50 - 150 A	18442Q52-508		
0 - 60 - 300 A	18442Q53-109	0 - 60 - 180 A	18442Q52-509		
0 - 75 - 375 A	18442Q53-109	0 - 75 - 225 A	18442Q52-510		
0 - 100 - 500 A	18442Q53-111	0 - 100 - 300 A	18442Q52-511		
0 - 125 - 625 A	18442Q53-112	0 - 125 - 375 A	18442Q52-512		
0 - 150 - 750 A	18442Q53-113	0 - 150 - 450 A	18442Q52-513		
0 - 200 - 1000 A	18442Q53-114	0 - 200 - 600 A	18442Q52-514		
0 - 250 - 1250 A	18442Q53-115	0 - 250 - 750 A	18442Q52-515		

① The list of dials is not exhaustive. Please consult quotation department for more options.

Control Stations and Panels

# Unicode™ 2 Series Accessoires: Ammeters

## Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2  
 Notable: UKEX, INMETRO Certified

### Interchangeable Dials for Ammeters ATEX/IECEx Ammeter 72 mm x 72 mm (2.83 in x 2.83 in) ①

Scale	Catalog Number	Scale	Catalog Number	Scale	Catalog Number
<b>Current Transformer 1 A, 2 x In</b>		<b>Current transformer 1 A, 6 x In</b>		<b>Current transformer 5 A, 5 x In</b>	
0 - 5 - 10 A	18442P21-101	0 - 5 - 30 A	18442P24-101	0 - 5 - 25 A	18442P23-501
0 - 10 - 20 A	18442P21-102	0 - 10 - 60 A	18442P24-102	0 - 10 - 50 A	18442P23-502
0 - 15 - 30 A	18442P21-103	0 - 15 - 90 A	18442P24-103	0 - 15 - 75 A	18442P23-503
0 - 20 - 40 A	18442P21-104	0 - 20 - 120 A	18442P24-104	0 - 20 - 100 A	18442P23-504
0 - 25 - 50 A	18442P21-105	0 - 25 - 150 A	18442P24-105	0 - 25 - 125 A	18442P23-505
0 - 30 - 60 A	18442P21-106	0 - 30 - 180 A	18442P24-106	0 - 30 - 150 A	18442P23-506
0 - 40 - 80 A	18442P21-107	0 - 40 - 240 A	18442P24-107	0 - 40 - 200 A	18442P23-507
0 - 50 - 100 A	18442P21-108	0 - 50 - 300 A	18442P24-108	0 - 50 - 250 A	18442P23-508
0 - 60 - 120 A	18442P21-109	0 - 60 - 360 A	18442P24-109	0 - 60 - 300 A	18442P23-509
0 - 75 - 150 A	18442P21-110	0 - 75 - 450 A	18442P24-110	0 - 75 - 375 A	18442P23-510
0 - 100 - 200 A	18442P21-111	0 - 100 - 600 A	18442P24-111	0 - 100 - 500 A	18442P23-511
0 - 125 - 250 A	18442P21-112	0 - 125 - 750 A	18442P24-112	0 - 125 - 625 A	18442P23-512
0 - 150 - 300 A	18442P21-113	0 - 150 - 900 A	18442P24-113	0 - 150 - 750 A	18442P23-513
0 - 200 - 400 A	18442P21-114	0 - 200 - 1200 A	18442P24-114	0 - 200 - 1000 A	18442P23-514
0 - 250 - 500 A	18442P21-115	0 - 250 - 1500 A	18442P24-115	0 - 250 - 1250 A	18442P23-515
<b>Current Transformer 1 A, 3 x In</b>		<b>Current transformer 5 A, 2 x In</b>		<b>Current transformer 5 A, 6 x In</b>	
0 - 5 - 15 A	18442P22-101	0 - 5 - 10 A	18442P21-501	0 - 5 - 30 A	18442P24-501
0 - 10 - 30 A	18442P22-102	0 - 10 - 20 A	18442P21-502	0 - 10 - 60 A	18442P24-502
0 - 15 - 45 A	18442P22-103	0 - 15 - 30 A	18442P21-503	0 - 15 - 90 A	18442P24-503
0 - 20 - 60 A	18442P22-104	0 - 20 - 40 A	18442P21-504	0 - 20 - 120 A	18442P24-504
0 - 25 - 75 A	18442P22-105	0 - 25 - 50 A	18442P21-505	0 - 25 - 150 A	18442P24-505
0 - 30 - 90 A	18442P22-106	0 - 30 - 60 A	18442P21-506	0 - 30 - 180 A	18442P24-506
0 - 40 - 120 A	18442P22-107	0 - 40 - 80 A	18442P21-507	0 - 40 - 240 A	18442P24-507
0 - 50 - 150 A	18442P22-108	0 - 50 - 100 A	18442P21-508	0 - 50 - 300 A	18442P24-508
0 - 60 - 180 A	18442P22-109	0 - 60 - 120 A	18442P21-509	0 - 60 - 360 A	18442P24-509
0 - 75 - 225 A	18442P22-110	0 - 75 - 150 A	18442P21-510	0 - 75 - 450 A	18442P24-510
0 - 100 - 300 A	18442P22-111	0 - 100 - 200 A	18442P21-511	0 - 100 - 600 A	18442P24-511
0 - 125 - 375 A	18442P22-112	0 - 125 - 250 A	18442P21-512	0 - 125 - 750 A	18442P24-512
0 - 150 - 450 A	18442P22-113	0 - 150 - 300 A	18442P21-513	0 - 150 - 900 A	18442P24-513
0 - 200 - 600 A	18442P22-114	0 - 200 - 400 A	18442P21-514	0 - 200 - 1200 A	18442P24-514
0 - 250 - 750 A	18442P22-115	0 - 250 - 500 A	18442P21-515	0 - 250 - 1500 A	18442P24-515
<b>Current transformer 1 A, 5 x In</b>		<b>Current transformer 5 A, 3 x In</b>			
0 - 5 - 25 A	18442P23-101	0 - 5 - 15 A	18442P22-501		
0 - 10 - 50 A	18442P23-102	0 - 10 - 30 A	18442P22-502		
0 - 15 - 75 A	18442P23-103	0 - 15 - 45 A	18442P22-503		
0 - 20 - 100 A	18442P23-104	0 - 20 - 60 A	18442P22-504		
0 - 25 - 125 A	18442P23-105	0 - 25 - 75 A	18442P22-505		
0 - 30 - 150 A	18442P23-106	0 - 30 - 90 A	18442P22-506		
0 - 40 - 200 A	18442P23-107	0 - 40 - 120 A	18442P22-507		
0 - 50 - 250 A	18442P23-108	0 - 50 - 150 A	18442P22-508		
0 - 60 - 300 A	18442P23-109	0 - 60 - 180 A	18442P22-509		
0 - 75 - 375 A	18442P23-110	0 - 75 - 225 A	18442P22-510		
0 - 100 - 500 A	18442P23-111	0 - 100 - 300 A	18442P22-511		
0 - 125 - 625 A	18442P23-112	0 - 125 - 375 A	18442P22-512		
0 - 150 - 750 A	18442P23-113	0 - 150 - 450 A	18442P22-513		
0 - 200 - 1000 A	18442P23-114	0 - 200 - 600 A	18442P22-514		
0 - 250 - 1250 A	18442P23-115	0 - 250 - 750 A	18442P22-515		

① The list of dials is not exhaustive. Please consult quotation department for more options.

# Unicode™ 2 Series Accessoires: Voltmeters

## Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2  
Notable: UKEX, INMETRO Certified

### Applications

- Suitable for use with certified Ex e enclosures for control equipment in industrial processes.

### Features

- Panel mounted version with metal support 48x48mm
- DIN rail mounted (TS35) and panel mounted version 72x72mm

### Technical Data

- Nominal current intensity : 6mA for both sizes
- Rated Voltage: 300 V for 48x48mm
- Rated Voltage: 500 V for 72x72mm
- Maximum short circuit 100 A for both sizes
- Frequency: 50 Hz
- Terminal connections: M4 for size 48x48; M5 for size 72x72
- Direct connections: up to 2,5mm<sup>2</sup>
- Connections by lugs : up to 4mm<sup>2</sup>

### ATEX/IECEx Certifications and Compliances

- Certification Type: U2VE
  - Gas: Zone 1 and 2
    - Conforming to ATEX 2014/34/EU: Ⓜ II 2 G
    - Type of Protection: Ex eb mb IIC Gb
  - Service Temperature: -25 °C à +70 °C
  - ATEX Certificate: LCIE 14 ATEX 3027 U
  - IECEx Certificate: IECEx LCIE 14.0026 U

### UKEX Certifications

- UKEX Certificate: CML 21UKEX3199U

### INMETRO Certifications

- INMETRO Certificate: BVC22.4129-U



AC Voltmètre

**Voltmeters — 48 x 48 mm (1.89" x 1.89") and 72 x 72mm (2.83" x 2.83")**  
Deflection 90° — Red adjustable index — Accuracy class 1.5 — Square barrel

Description	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog number
<b>Rail mounted</b>			
For size 48 x 48mm with scale 0-300	0.2 (0.44)	0.3 (18.3)	U2VE48300R
For size 72 x 72mm with scale 0-500	0.3 (0.66)	0.6 (36.6)	U2VE72500R
<b>Panel mounted</b>			
For size 48 x 48mm with scale 0-300	0.2 (0.44)	0.3 (18.3)	U2VE48300P
For size 72 x 72mm with scale 0-500	0.3 (0.66)	0.6 (36.6)	U2VE72500P
<b>Window for voltmeter</b>			
For size 48 x 48 mm	0.1 (0.22)	0.4 (24.4)	CA48W
For size 72 x 72 mm	0.2 (0.44)	0.4 (24.4)	CA72W

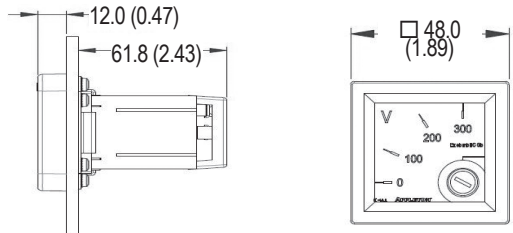
# Unicode™ 2 Series Accessoires: Voltmeters

Components for Increased Safety Enclosures

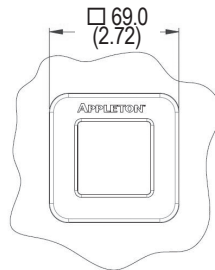
ATEX/IECEX: Zones 1 and 2  
 Notable: UKEX, INMETRO Certified

## Dimensions in Millimeters (Inches)

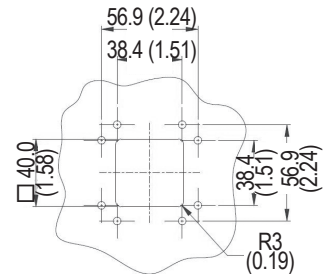
### ATEX/IECEX Voltmeters 48 mm x 48 mm (1.89" x 1.89")



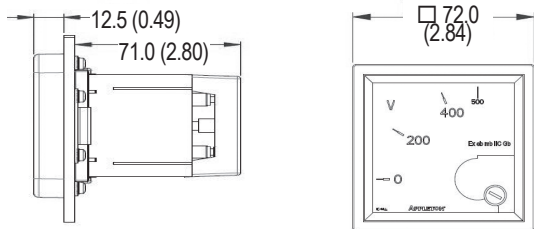
### Window for Voltmeters



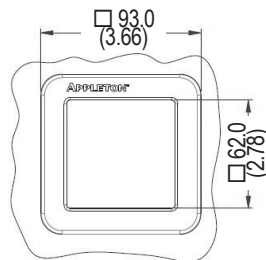
### Drilling Information



### ATEX/IECEX Voltmeters — 72 mm x 72 mm (2.83" x 2.83")



### Window for Voltmeters



### Drilling Information

