APDAC/APDSC Series Control Stations
Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications
- Small terminal junction boxes designed to facilitate electrical connections in hazardous areas.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently.
- Ideal for use in wet or corrosive atmospheres, such as:
  — Petroleum refineries
  — Chemical refineries
  — Other industrial process facilities
- Designed for use in Zone 21 or 22 areas, where flammable dusts are present either continuously or intermittently, such as:
  — Food processing
  — Dairy
  — Brewing
  — Silos
  — Other facilities

Features
- High impact resistant box.
- Pillar/screw type terminal block up to 16 mm² (0,024 po²) is available in standard sizes.
- Internal earth: one of the mounting hole for terminals so provided with M5 Screws.
- External earth: M5 screw.
- Back plate supplied as option.
- Operating temperature -20 °C +55 °C (-4 °F to +131 °F).
- Empty enclosures with 'U' certification marking for re-certification is available.
- Electrical data:
  — Maximum voltage: AC, 690 Vac/440 Vdc
  — Current rating: 50 Amp. Vac/Vdc

Standard Material
- Housing: aluminum; 304/316L stainless steel available on request
- Hardware: stainless steel

Standard Finishes
- Housing: marine grade gray epoxy powder coat.

APD_C13P

ATEX/IECEx Certifications and Compliances
- Certification Type: APDAC/APDSC
  — 16, 25 and 32 Amp Switches
  — Gas, Zones 1 and 2:
    – Conforming to Directive ATEX 94/9/CE: ⟨Ex⟩ II 2 G
    – Type of Protection: Ex db IIC T* Gb
    – Temperature Class:
      – T6: 10 Watt Maximum Power Dissipation
      – T5: 20 Watt Maximum Power Dissipation
  — Dust, Zones 21 and 22:
    – Conforming to Directive ATEX 94/9/CE: ⟨Ex⟩ II2 D
    – Type of Protection: Ex tb IIIC T* Db
    – Surface Temperature: T75 °C to T90 °C (T167 °F to T194 °F)
      – T75 °C: 10 Watt Maximum Power Dissipation
      – T90 °C: 20 Watt Maximum Power Dissipation
    – Ambient Temperature: -20 °C ≤ to ≤ +55 °C (-4 °F ≤ to ≤ +131 °F)
  — ATEX Certificate: ExVeritas 19ATEX 0523X; ExVeritas 19ATEX 0524U
  — IECEx Certificate: IECEx EXV: 19.0047X; IECEx EXV 119.0048U
- Index of Protection according EN/IEC 60529: IP66
- Internal Volume: ≤ 2 dm³ (122 in³) — 2 liters

Catalog Numbering Guide — APD Series 130 mm (5.12 in) Diameter Control Station

APD	A	C	13	13	A1	B1	_

Series:
APD: ATEX/IECEx Certified Enclosure

Gas Group:
C - IIC

Component: ①
- IR2 - Indicating Lamp-Red
- MR - Mushroom Head Push Button
- 2P - 2 Position Selector
- P162 - 16 Amp, 2-Pole Switch
- C - Special/Custom Version

Left/Right Side Entry

Side:	Code:
B - Left	1 - 2 x M20
D - Right	2 - 2 x M25
	3 - 2 x 1/2"
	4 - 2 x 3/4"

Material :
- A - Aluminium
- S - Stainless Steel

Size mm (in):
13P - 130 (5.12)

Top/Bottom Entry

Side:	Code:
A - Bottom	1 - 2 x M20
C - Top	2 - 2 x M25
	3 - 2 x 1/2"
	4 - 2 x 3/4"
	5 - 1 x 1" NPT
	6 - 1 x M32
	7 - Custom Entry

Terminal:
- Customized version
For Maximum terminals refer to allowed Manufacturer Drawing

① *See full component list for all available options.*

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Equipment	Catalog Number ①
Control Station with Pilot Light	
Enclosure with Red Pilot Light and Entry at Bottom	**APDAC 13P IR2 A1 #**
Enclosure with 16A - 2 Pole Switch with 2 X M20 Entry at Bottom	**APDAC 13P P162 A1 #**
Enclosure with 32A - 3 Pole Switch with 2 X M25 Entry at Bottom	**APDAC 13P P323 A2 #**
Customized Enclosures	
Entry on any side	**APDAC 13 #**

Components

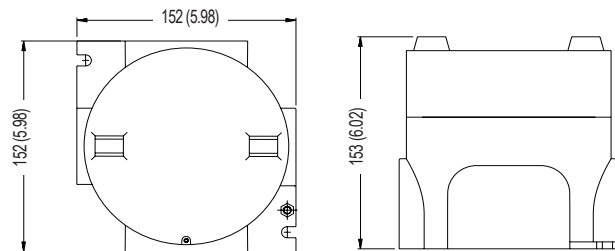| Description	Suffix
Spring Return Push Button	
Green spring return 'I' push button with 1NO momentary contact	**PG**
Red spring return'0' push button with 1NC momentary contact	**PR**
Rotary Actuator	
2 maintained positions with 1NO maintained contact	**2P**
2 maintained positions key operated with 1NO maintained contatct key removable in both positions (MS1)	**2PM**
Mushroom Head Push Button	
Red mushroom head spring return with 1NC momentary contact - Padlockable in both positions	**MR**
Red mushroom head push pull with 1NC maintained contact- Padlockable in both positions	**MRP**
Red mushroom head key release with 1NC maintained contact - Unlocked with key (MS1)	**MRK**

LED Pilot Lights

Voltage	Color	Suffix
12 to 30 Vac/Vdc	Red	IR0
	Green	IG0
	White	IW0
	Blue	IB0
	Yellow	IY0
48 to 60 Vac/Vdc	Red	IR1
	Green	IG1
	White	IW1
	Blue	IB1
	Yellow	IY1

Control Stations and Panels

Dimensions in Millimeters (Inches)

APADAC 130 mm (5.12") P

152 (5.98) · 152 (5.98) · 153 (6.02)

Type	Internal Dimensions			External Dimensions		Weight kg (lb)	
	Dia Ø	Height	Length	Width	Height	Aluminum	Stainless Steel
APADAC130P	130 (5.12)	121 (4.76)	152 (5.98)	152 (5.98)	153 (6.02)	2.00 (4.41)	5.92 (13.05)

① Other configurations available on request. Please contact your local sales representative.

EMERSON · **APPLETON**