DOP-300 Series

Human Machine Interface



Compact. Connected. Powerful.

FDA 21 CFR Part 11 Compliant

Ideal solution for machines in the medical, pharmaceutical, and food & beverages industries

electrahertz
electrical suppliers

DELTA

OT + IT Ecosystem - IIoT Structure

PLC



Remote I/O



Field Devices



OT Layer:
Effortless Data Consolidation.



DOP-300
HMI

\+



DX-MWB-01N

IT Layer:
Secure Ground-to-Cloud Transmission.

DIACloud
Delta Cloud Service Platform

Scan to watch video

IIoT Connectivity

Native **MQTT & OPC UA** support for seamless ground-to-cloud integration without external gateways

Industrial Security

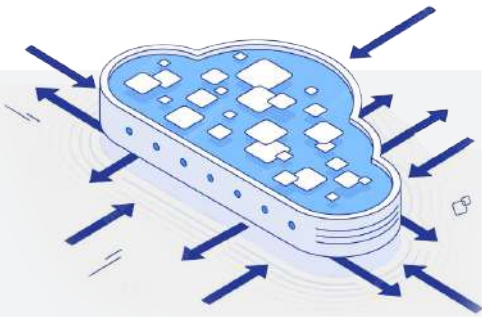
Built-in compliance with **IEC 62443** and **ISO 27001** standards to protect critical industrial data

Visual Excellence

24-bit full-color display and **fully laminated** panel for 170° visibility and high-precision touch

The Software Ecosystem

The **DOP-300** series is supported by a comprehensive software ecosystem designed to unify factory-floor operations with cloud-based management. This **"design once, monitor anywhere"** workflow ensures real-time data visibility and seamless remote maintenance



DIAScreen
• Unified Editor Software

DIAStudio
• Integrated Engineering Platform

DIACloud
• **IoT** Cloud Services Platform

DIAWebDesigner
• Web-Based Configuration System

DIADesigner-AX
• PLC programming compliant with IEC 61131-3 standards

CODESYS
Ecosystem

Catalogue

Connects with 200+ protocols for seamless *third-party brand* integration

DOP-300 series - Advance HMI *(Human Machine Interface)*

Delta DOP-300 Series is an IIoT-centric evolution in HMI technology, designed to bridge the gap between factory floor operations and cloud-based management. Powered by a high-speed dual-core processor, these HMIs offer native support for **MQTT** and **OPC UA protocols,** enabling seamless ground-to-cloud data transmission.

Featuring 24-bit full-colour displays and **fully laminated touchscreens,** the series delivers superior visual clarity and high-precision responsiveness for demanding smart manufacturing environments.

General features:

- Supports Wi-Fi for easy data collection *(Wi-Fi dongle sold separately)*
- Ultra-wide full-colour display with fully laminated design for upgraded visuals and touch
- Includes 20 tags and 12GB storage for the first 12 months.
- Web Interface Editor DIAWebDesigner, allows users to customise interfaces and monitor real-time data from equipment and production lines anywhere in the world

Specifications:

- Processor: Dual-Core 1.2 GHz *(vs standard 800MHz)*
- IIoT protocols: Native OPC UA *(Client/Server)* & MQTT
- Panel design: Fully laminated display
- Display: 24-bit full colour *(16.7M colours)*
- Cloud services: Built-in DIACloud & DIAWebDesigner
- Cyber security: **IEC 62443** & **ISO 27001/27701**



DOP-3S07S3E2



DOP-3S10S3E2

type	display size	version	Ethernet DIACloud	host ports SD/USB	description	price
Advanced HMI - 7-inch *(wide angle display)*				*panel cutout: 186.8 x 126.8 mm*		
A high-performance, compact solution optimized for smart machine integration where space is limited but data density is high.						
Key features: • High-resolution display: 1024 x 600 pixel resolution with a 24-bit colour depth for lifelike visuals • Rapid processing: ARM Cortex-A7 Dual Core (1.2GHz) processor to handle complex data logging • Versatile connectivity: Equipped with dual 10/100 Mbps Ethernet ports						
DOP-3S07S3E2	**7"***(154.21 x 85.92)*	IIoT	Yes	SD/USB	3 x COM ports	**9 975.00**
Advanced HMI - 10.1-inch *(wide angle display)*				*panel cutout: 255 x 170 mm*		
The flagship model for plant-wide dashboards, offering the screen real estate necessary for complex monitoring and detailed analytics.						
Key features: • Wide viewing angle: IPS-level performance with a 170° viewing angle, ensuring the display is clear from any position • Laminated precision: The fully laminated design eliminates the air gap between the glass and LCD, improving touch accuracy and durability in industrial settings • Cybersecurity ready: Built-in compliance with IEC 62443 and ISO 27001 standards for secure industrial data handling						
DOP-3S10S3E2	**10"***(222.72 x 125.28)*	IIoT	Yes	SD/USB	3 x COM ports	**17 745.00**

Wi-Fi module and industrial router for above HMIs

- Modular connectivity: Snaps onto the module to enable high-speed Wi-Fi (2.4 GHz) and Bluetooth communication
- Cost efficiency: Eliminates expensive network cabling and enhances space utilization within the electrical control cabinet
- 4G ready: Mobile connectivity via third-party modems. Recommend **RUT200**

type	operating temp	protocol	description	price
DX-MWB-01N	0˚C ~ 50˚C	802.11 b / g / n	Wi-Fi and Bluetooth module	**1 921.00**
RUT200	-40 °C to 75 °C	4G LTE, 3G and 2G	4G industrial cellular router	**4 725.00**

On-Demand service packages

To extend the HMIs capabilities, Delta offers specialized top-up cards for advanced remote and analytical functions:

Annual *(1 year)* **package**

type	capacity / tags	function	description	
DX-TRA-0036	36 GB	Remote access	Used for VNC, HMI or remote upload / download from PLC	**3 129.00**
DX-TCA-0500	500 TAG	Cloud application	Used for data analysis and visible charts	**7 234.50**

DOP-100 - Series



Scan QR for the DOP-100 range