Advanced HMI

Model		Advanced Narrow Frame Type				
		DOP-103WQ	DOP-110WS			
	Display	4.3" TFT LCD 7" TFT LCD 10.1" TFT LCI				
	Color	65,536				
LCD Module	Resolution (Pixels)	480 x 272	800 x 480	1024 x 600		
	Back Light	LED Back Light				
	Back Light Brightness (cd/m²)	400	450	450		
	Back Light Life (Hour) ^{⁴1}	10,000	20,000	30,000		
	Display Area	95.04 x 53.856 mm	154.08 x 85.92 mm	225.52 x 128.10 mm		
	MCU		ARM Cortex-A8 (800MHz)			
	Flash ROM (Bytes)		256 MB			
	RAM (Bytes)		512 MB			
	Touch Panel	Four-	wire resistor, over 10,000,000 pressing	g times		
	Buzzer	M	lulti-Tone Frequency (2K ~ 4K Hz) / 80	dB		
	Ethernet Interface		1 Port *2, 10/100 Mbps auto-sensing			
	USB	1	USB Slave Ver 2.0 / 1 USB Host Ver 2	2.0		
	SD	N/A		SD x 1		
Serial	COM1	RS-232 (supports hardware flow control) / RS-485 ⁻² RS-232 (supports hardware flow control)				
COM Port	COM2	RS-422 / RS-485 ² RS-232 (supports hardware flow control) / RS-485 ²				
	СОМЗ	N/A RS-422 / RS-485 ^{*2}				
	RTC	Built-in				
	Cooling	Natural air circulation				
	Certification	CE / UL				
	Waterproof	IP65 / NEMA4 / UL Type 4X (indoor use only)				
	Operation Voltage '3	DC +24V (-15% ~ 15%) *2				
	Voltage Endurance	A599V for 1 minute (between charging DC24 terminal and FG terminals)				
F	Power Consumption '⁵	Max. 5.8 W ^{*3}	Max. 8.4 W *3	Max. 11 W *3		
	Backup Battery	3V lithium battery CR2032 × 1				
	Backup Battery Life	Depends on the temperature used and the conditions of usage, usually about 3 years or more at 25° C				
C	perating Temperature	0°C ~ 50°C				
,	Storage Temperature	-20 °C ~ 60 °C				
	Ambient Humidity	10% ~ 90% RH (0 ~ 40° C), 10% ~ 55% RH (41 ~ 50° C), Pollution Degree 2				
	Vibration	IEC 61131-2 compliant 5Hz ~ 8.3Hz = Continuous: 3.5mm, 8.3Hz ~ 150Hz = Continuous: 1.0g				
	Shock	IEC 60068-2-27 compliant 15g peak for 11ms duration, X, Y, Z, directions for 6 times				
Dime	ensions (W) x (H) x (D) mm	137 x 103 x 37.1	196 x 136 x 39	270 x 180.9 x 47.75		
Mounti	ing dimension (W) x (H) mm	118.8 x 92.8	186.8 x 126.8	255 x 170.5		
	Weight	280 g	560g	1,100g		
\ The helf !!s-	es a bandinta in desard as the addition by					

¹⁾ The half-life of a backlight is defined as the original luminance being reduced by 50% when the maximum driving current is supplied to an HMI.

2) Built-in power isolation

3) An isolated power supply is recommended.

4) Some models are in the process of application for UL and KCC certification. For more information, please consult our distributors.

5) The value of the power consumption indicates the electrical power consumed by the HMI with no peripheral devices connected.

6) The content of this catalogue may be revised without prior notice. Please consult our distributors or download the most updated version at http://www.deltaww.com

Advanced HMI

Model		Advanced Narrow Frame Type		Advanced Multimedia Type		
Model		DOP-112WX	DOP-115WX	DOP-112MX	DOP-115MX	
	Display	12" TFT LCD	15" TFT LCD	12" TFT LCD	15" TFT LCD	
LCD Module	Color	24bit				
	Resolution (Pixels)	1024 x 768				
	Back Light	LED Back Light				
	Back Light Brightness (cd/m²)	500 450 500 450				
	Back Light Life (Hour) *1	50,000				
	Display Area	245.76 x 184.32 mm	304.1 x 228.1 mm	245.76 x 184.32 mm	304.1 x 228.1 mm	
	MCU		Dual Co	re 1GHz	1	
	Flash ROM (Bytes)		80	BB		
	RAM (Bytes)		DDR3 100	OMHz 1GB		
	Touch Panel		Four-wire resistor, over 1	0,000,000 pressing times		
	Buzzer		Multi-Tone Frequency	/ (2K ~ 4K Hz) / 85dB		
	Ethernet Interface		2 Port, 100	OM bps x 2		
	USB		1 Mini USB Slave Ver 2	.0 / 1 USB Host Ver 2.0		
	SD		SD	x 1		
	COM1	RS-232 (supporting flow control) / RS485 ^{'2}				
Serial	COM2	RS-422 / RS485 ^{'2}				
OM Port	СОМЗ	RS-232 (supporting flow control) / RS-485 ^{*2}				
	COM4	RS-422 / RS485				
	RTC	Built-in				
	Cooling	Natural air circulation				
	Certification	CE / UL				
	Waterproof	IP65 / NEMA4 / UL Type 4X (indoor use only)				
	Operation Voltage *3	DC +24V (-15% ~ 15%) *2				
	Voltage Endurance	A599V for 1 minute (between charging DC24 terminal and FG terminals)				
F	Power Consumption *5	Max. 16.08W	Max. 21.12W	Max. 16.08W	Max. 21.12W	
	Backup Battery	3V lithium battery CR2032 × 1				
	Backup Battery Life	Depends on the temperature used and the conditions of usage, usually about 3 years or more at 25° C				
0	Operation Temperature	0°C ~ 50°C				
;	Storage Temperature	-20°C ~ 60°C				
	Ambient Humidity	10% ~ 90% RH (0 ~ 40° C), 10% ~ 55% RH (41 ~ 50° C), Pollution Degree 2				
	Viberation	IEC 61131-2 compliant 5Hz ~ 8.3Hz = Continuous: 3.5mm, 8.3Hz ~ 150Hz = Continuous: 1.0g				
Shock		IEC 60068-2-27 compliant 15g peak for 11ms duration, X, Y, Z, directions for 6 times				
		317.4 x 246.4 x 52.7	387.7 x 295.7 x 63.5	317.4 x 246.4 x 52.7	387.7 x 295.7 x 63.	
Dime	ensions (W) x (H) x (D) mm	317.4 X 240.4 X 32.7	00111 N 20011 N 0010	0 11 1 1 X Z 101 1 X 0Z.1	00111 X 20011 X 001	
	ensions (W) x (H) x (D) mm ing dimension (W) x (H) mm	302.7 x 228.7	372.4 x 283.7	302.7 x 228.7	372.4 x 283.7	

¹⁾ The half-life of a backlight is defined as the original luminance being reduced by 50% when the maximum driving current is supplied to an HMI.
4) Built-in power isolation
5) An isolated power supply is recommended.
4) Some models are in the process of application for UL and KCC certification. For more information, please consult our distributors.
7) The value of the power consumption indicates the electrical power consumed by the HMI with no peripheral devices connected.
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Standard HMI

Model		Standard General Type				
MOUGI		DOP-105CQ	DOP-107CV	DOP-110CS	DOP-110CG	
	Display	5.6" TFT LCD 7" TFT LCD 10" TFT LCD 10.4" TFT LCD				
	Color	65,536				
LCD Module	Resolution (Pixels)	320 x 234	800 x 480	1024 x 600	800 x 600	
	Back Light	LED Back Light				
	Back Light Brightness (cd/m²)	200 400 300 300				
	Back Light Life (Hour) *1	20000				
	Display Area	113.28 x 84.70 mm	154.08 X 85.92 mm	226 X 128.7 mm	211.2 x 158.4 mm	
	MCU		ARM Cortex-	A8 (800MHz)		
	Flash ROM (Bytes)		256 M	bytes		
	RAM (Bytes)		256 M	bytes		
	Touch Panel	Four-wire re	esistor, over > 10,000,000 pre	ssing times	Four-wire resistor, over 1,000,000 pressing time	
Audio	Buzzer		Multi-Tone Frequency	(2K ~ 4K Hz) / 80dB		
Output	AUX	N/A				
	USB		1 USB Slave Ver 2.0	/ 1 USB Host Ver 2.0		
	SD	N/A				
	COM1	RS-232 (supports hardware flow control) ^{'2}				
Serial OM Port	COM2	RS-232 (supports hardware flow control) / RS-485 *2				
	COM3	RS-422 / RS-485 ⁻²				
	RTC	Built-in				
	Cooling	Nature air circulation				
	Certification	CE / UL (please equip shielding cables and linefilters with capacity of 300ohm/100MHz)				
	Waterproof	IP65 / NEMA4 / UL Type 4X (indoor use only)				
	Operation Voltage *3	DC +24V (-15% ~ +15%)(please equip isolated-type power supplies) Supplied by Class 2 or SELV circuit (isolated from MAINS by double insulation)				
	Voltage Endurance	A500V for 1 minute (between charging DC24 terminal and FG terminals)				
F	Power Consumption *5	Max. 6.86 W*3	Max. 8.5 W *3	Max. 10.4 W *3	Max. 8W*3	
	Backup Battery	3V lithium battery CR2032 × 1				
	Backup Battery Life	Depends on the temperature used and the conditions of usage, usually about 3 years or more at 25° C				
0	peration Temperature	0°C ~ 50°C				
;	Storage Temperature	-20 °C ~ 60 °C				
	Ambient Humidity	10% ~ 90% RH (0 ~ 40° C), 10% ~ 55% RH (41 ~ 50° C), Pollution Degree 2				
	Vibration	IEC 61131-2 compliant 5Hz ~ 8.3Hz = Continuous: 3.5mm, 8.3Hz ~ 150Hz = Continuous: 1.0g				
	Shock	IEC 60068-2-27 compliant 15g peak for 11ms duration, X, Y, Z, directions for 6 times				
Dime	ensions (W) x (H) x (D) mm	184 x 144 x 50	215 x 161 x 61.2	272 x 200 x 61	229 x 224 x 46.8	
Mounti	ing dimension (W) x (H) mm	172.4 x 132.4	196.9 x 142.9	261.3 x 189.3	285.2 x 210.2	
Weight		670g	970g	1330g	1735 g	

¹⁾ The half-life of a backlight is defined as the original luminance being reduced by 50% when the maximum driving current is supplied to an HMI.6
2) Built-in power isolation
3) An isolated power supply is recommended.
4) Some models are in the process of application for UL and KCC certification, For more information, please consult our distributors.
5) The value of the power consumption indicates the electrical power consumed by the HMI with no peripheral devices connected.
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Standard HMI

	Model	Standard Ethernet Type (2 COM)			
	model	DOP-107EG	DOP-107EV		
	Display	7" TFT LCD	7" TFT LCD		
LCD Module	Color	65,536			
	Resolution (Pixels)	800 x 600	800 x 480		
	Back Light	LED Back Light			
	Back Light Brightness (cd/m²)	450	400		
	Back Light Life (Hour) *1	20000	20000		
	Display Area	141 X 105.75 mm	154.08 X 85.92 mm		
	MCU	ARM Cortex-	A8 (800MHz)		
	Flash ROM (Bytes)	256 N	lbytes		
	RAM (Bytes)	256 N	lbytes		
	Touch Panel	Four-wire resistor, over >	10,000,000 pressing times		
Audio	Buzzer	Multi-Tone Frequency	/ (2K ~ 4K Hz) / 80dB		
Output	AUX	Stereo output	N/A		
	Ethernet Interface	1 Port ^{'2} , 10/100 Mbps auto-sensing			
	USB	1 USB Slave Ver 2.0; 1 USB Host Ver 2.0			
	SD	SDx1	N/A		
	COM1	RS-232 (supports hardware flow control) ²			
Serial OM Port	COM2	RS-232 (supports hardware flow control) / RS-485 ^{*2}			
	СОМЗ	RS-422 / RS-485 ⁻²			
	RTC	Built-in			
	Cooling	Natural air circulation			
	Certification	CE / UL (please equip Shielding cables and linefilters with capacity of 300ohm/100MHz)			
	Waterproof	IP65 / NEMA4 / UL Type 4X (indoor use only)			
	Operation Voltage '3	DC +24V (-15% ~ +15%)(please equip isolated-type power supplies) Supplied by Class 2 or SELV circuit (isolated from MAINS by double insulation)			
	Voltage Endurance	A500V for 1 minute (between chargi	ng DC24 terminal and FG terminals)		
P	Power Consumption *5	Max. 8.4 W *3	Max. 8.76 W ^{*3}		
	Backup Battery	3V lithium batte	ery CR2032 × 1		
	Backup Battery Life	Depends on the temperature used and the conditions of usage, usually about 3 years or more at 25° C			
0	perating Temperature	0°C ~ 50°C			
;	Storage Temperature	-20°C ~ 60°C			
	Ambient Humidity	10% ~ 90% RH (0 ~ 40° C), 10% ~ 55% RH (41 ~ 50° C), Pollution Degree 2			
	Vibration	IEC 61131-2 compliant 5Hz ~ 8.3Hz = Continuous: 3.5mm, 8.3Hz ~ 150Hz = Continuous: 1.0g			
	Shock	IEC 60068-2-27 compliant 15g peak for 11ms duration, X, Y, Z, directions for 6 times			
Dime	nsions (W) x (H) x (D) mm	184 x 144 x 51.5	215 x 161 x 61.2		
Mounti	ng dimension (W) x (H) mm	172.4 x 132.4	196.9 x 142.9		
	Weight	800 g	970g		

¹⁾ The half-life of a backlight is defined as the original luminance being reduced by 50% when the maximum driving current is supplied to an HMI.
2) Built-in power isolation
3) An isolated power supply is recommended.
4) Some models are in the process of application for UL and KCC certification, For more information, please consult our distributors.
5) The value of the power consumption indicates the electrical power consumed by the HMI with no peripheral devices connected.
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Standard HMI

Model		Standard Ethernet Type (3 COM)					
model		DOP-107IV	DOP-108IG	DOP-110IS	DOP-110IG		
	Display	7" TFT LCD 8" TFT LCD 10.1" TFT LCD 10.4" TFT LCD					
	Color	65,536					
LCD Module	Resolution (Pixels)	800 x 480	800 x 600	1024 x 600	800 x 600		
	Back Light	LED Back Light					
	Back Light Brightness (cd/m²)	400 250 300 300					
	Back Light Life (Hour) ^{⁴1}	20000					
	Display Area	152.4 x 91.44 mm	162 x 121.5 mm	226 x 128.7 mm	211.2 x 158.4 mn		
	MCU		ARM Cortex-	A8 (800MHz)			
	Flash ROM (Bytes)		256 M	lbytes			
	RAM (Bytes)		256 M	lbytes			
	Touch Panel		Four-wire resistor, over >	10,000,000 pressing times			
Audio	Buzzer		Multi-Tone Frequency	/ (2K ~ 4K Hz) / 80dB			
Output	AUX	N/A Stereo output					
	Ethernet Interface		1 Port ^{*2} , 10/100 M	lbps auto-sensing			
	USB		1 USB Slave Ver 2.0	/ 1 USB Host Ver 2.0			
	SD	SD x 1					
	COM1	RS-232 (supports hardware flow control) 2					
Serial OM Port	COM2	RS-232 (supports hardware flow control) / RS-485 ^{*2}					
	СОМЗ	RS-232 (supports hardware flow control) / RS-422 / RS-485 ^{"2}					
	RTC	Built-in					
	Cooling	Nature air circulation					
	Certification	CE / UL (please equip shielding cables and linefilters with capacity of 300ohm/100MHz)					
	Waterproof		IP65 / NEMA4 / UL Typ	pe 4X (indoor use only)			
	Operation Voltage *3	DC +24V (-15% ~ +15%)(please equip isolated-type power supplies) Supplied by Class 2 or SELV circuit (isolated from MAINS by double insulation)					
	Voltage Endurance	A500V for 1 minute (between charging DC24 terminal and FG terminals)					
F	Power Consumption '5	Max. 12W *3	Max. 9.88 W *3	Max. 9.6W *3	Max. 9.6W*3		
	Backup Battery	3V lithium battery CR2032 × 1					
	Backup Battery Life	Depends on the temperature used and the conditions of usage, usually about 3 years or more at 25° C					
	peration Temperature	0°C ~ 50°C					
	Storage Temperature	-20 °C ~ 60 °C					
	Ambient Humidity	10% ~ 90% RH (0 ~ 40° C), 10% ~ 55% RH (41 ~ 50° C), Pollution Degree 2					
Ambient Humidity Vibration		IEC 61131-2 compliant 5Hz ~ 8.3Hz = Continuous; 3.5mm, 8.3Hz ~ 150Hz = Continuous; 1.0q					
		IEC 60068-2-27 compliant 15g peak for 11ms duration, X, Y, Z, directions for 6 times					
	Shock	IEC 60068-2-	27 compliant 15g peak for 11				
Dime	Shock		, ,,				
		IEC 60068-2- 215 x 161 x 61.2 196.9 x 142.9	27 compliant 15g peak for 11 227.1 x 174.1 x 61 219.4 x 166.5	272.6 x 200.6 x 54 261.3 x 189.3	299 x 224 x 46.8 285.2 x 210.2		

¹⁾ The half-life of a backlight is defined as the original luminance being reduced by 50% when the maximum driving current is supplied to an HMI.6

¹⁾ The natified of a backgint is defined as it e original idinifiance being reduced by 50% when the maximum driving current is supplied to an indice.

2) Built-in-power isolation

3) An isolated power supply is recommended.

4) Some models are in the process of application for UL and KCC certification. For more information, please consult our distributors.

5) The value of the power consumption indicates the electrical power consumed by the HMI with no peripheral devices connected.

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Basic HMI

Model		Basic Type		Basic Ethernet Type			
		DOP-103BQ DOP-107BV		DOP-107DV			
	Display	4.3" TFT LCD 7" TFT LCD 7" TFT LC					
	Color	65,536					
LCD Module	Resolution (Pixels)	480 x 272	800 x 480	800 x 400			
	Back Light	LED Back Light					
	Back Light Brightness (cd/m²)		400				
	Back Light Life (Hour) ¹¹	20000					
	Display Area	95.04 x 53.856 mm 154.08 x 85.92 mm 154.08 x 85.92 mm					
	MCU		ARM Cortex-A8 (800MHz)				
	Flash ROM (Bytes)		256 Mbytes				
	RAM (Bytes)		256 Mbytes				
	Touch Panel	Four-w	vire resistor, over > 10,000,000 pressin	g times			
Audio	Buzzer	M	ulti-Tone Frequency (2K ~ 4K Hz) / 80	dB			
Output	AUX		N/A				
	Ethernet Interface	N/A	N/A	1 Port, 10/100 Mbps auto-sensing			
	USB	1	USB Slave Ver 2.0 / 1 USB Host Ver 2	2.0			
	SD	N/A					
	COM1	RS-232/RS-485 (supports hardware flow control) ^{*2}					
Serial OM Port	COM2	RS-422 / RS-485 ⁻²					
	сомз	N/A					
	RTC	Built-in					
	Cooling	Nature air circulation					
	Certification	CE / UL (please equip shielding cables and linefilters with capacity of 300ohm/100MHz)					
	Waterproof	IP65 / NEMA4 / UL Type 4X (indoor use only)					
	Operation Voltage '3	DC +24V (-15% \sim +15%)(please equip isolated-type power supplies) Supplied by Class 2 or SELV circuit (isolated from MAINS by double insulation)					
	Voltage Endurance	A500V for 1 minu	ute (between charging DC24 terminal a	and FG terminals)			
F	Power Consumption '5	Max. 5.67W *3	Max. 8.6 W *3	Max. 8.8W *3			
	Backup Battery	3V lithium battery CR2032 × 1					
	Backup Battery Life	Depends on the temperature us	ed and the conditions of usage, usually	y about 3 years or more at 25° C			
0	peration Temperature	0°C ~ 50°C					
;	Storage Temperature	-20 °C ~ 60 °C					
	Ambient Humidity	10% ~ 90% RH (0 ~ 40° C), 10% ~ 55% RH (41 ~ 50° C), Pollution Degree 2					
	Vibration	IEC 61131-2 compliant 5Hz ~ 8.3Hz = Continuous: 3.5mm, 8.3Hz ~ 150Hz = Continuous: 1.0g					
	Shock	IEC 60068-2-27 compliant 15g peak for 11ms duration, X, Y, Z, directions for 6 times					
Dime	nsions (W) x (H) x (D) mm	137 x 103 x 37.1	215 x 161 x 35.5	215 x 161 x 35.5			
Mounti	ng dimension (W) x (H) mm	118.8 x 92.8	196 x 142.9	196 x 142.9			
Weight		280 g	700 g	700 g			

¹⁾ The half-life of a backlight is defined as the original luminance being reduced by 50% when the maximum driving current is supplied to an HMI.6
2) Built-in power isolation
3) An isolated power supply is recommended.
4) Some models are in the process of application for UL and KCC certification. For more information, please consult our distributors.
5) The value of the power consumption indicates the electrical power consumed by the HMI with no peripheral devices connected.
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Handheld HMI

	Madal	Handheld HMI				
Model		DOP-107HS4xx	DOP-107HE4xx	DOP-107HE4xxZM	DOP-107HE47xZD	
	Display		7" TF	TLCD		
LCD Module	Color		65	536		
	Resolution (Pixels)		800	x 480		
	Back Light	LED Back Light				
	Back Light Brightness (cd/m²)	400 450 450				
	Back Light Life (Hour) *1	10,000	20,000	30,	000	
	Display Area		154.08 x	85.92 mm		
	MCU		ARM Cortex-	A8 (800MHz)		
	Flash ROM (Bytes)		256	MB		
	RAM (Bytes)		512	MB		
	Touch Panel		Four-wire resistor, over >	10,000,000 pressing times		
	Buzzer		Multi-Tone Frequency	/ (2K ~ 4K Hz) / 80dB		
	Ethernet Interface	N/A	1 Port *2, 10/100 l	Mbps auto-sensing	1 Port *2, 10/100 Mbp auto-sensing	
	USB		1 USB Sla	ve Ver 2.0		
	SD		SD/S	BDHC		
Serial	COM Port/Communication	RS-232/ RS-485	N	/A	N/A	
		B cont	act x 2	A contact x 1	/B contact x 1	
E	Emergency stopswitch	Rated voltage: < DC 30V Maximum rated current: 1AMinimum allowable load: DC 5V / 1 mAComplies with IEC60947-5-1, EN60947-5-1, IEC60947-5-5, EN60947-5-5, UL 508, CSA C22.2 No.14, GB 14085.5				
		A contact x 1				
3-position operation switch		Rated voltage: < DC 30VMaximum rated current: 700 mAMinimum allowable load: DC 3V / 5 mAComplies with EN IEC60947-5-8, IEC60947-5-1, EN60947-5-1, JIS C8201-5-1, UL508, CSA C22.2 NO. 14Applicable standards for use with ISO12100-1,-2/EN12100-1,-2, IEC60204-1/EN60204-1, ISO11161/prEN11161, ISO10218/EN775, ANSI/R R15.06, ANSI B11.19				
MPG		Rated voltage: < DC 24V Resolution: 50(P/R) Output waveform: square waveOutput phase: A, B Phase difference between A and B: 90° ± 45° Maximum frequency response: 200 Hz				
	mr G		Phase difference betw	e waveOutput phase: A, B een A and B: 90° ± 45°		
	Auxiliary keyboard		Phase difference betw	e waveOutput phase: A, B een A and B: 90° ± 45°	21 Function Keys	
			Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of	e waveOutput phase: A, B een A and B: 90° ± 45°	21 Function Keys	
	Auxiliary keyboard		Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz	21 Function Keys	
	Auxiliary keyboard Cable length		Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of Bui	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz model name = 5) f model name = A)	21 Function Keys	
	Auxiliary keyboard Cable length Calendar		Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of Bui	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz model name = 5) f model name = A)	21 Function Keys	
	Auxiliary keyboard Cable length Calendar Cooling method		Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of Bui Natural	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz f model name = 5) f model name = A) It-in cooling	21 Function Keys	
	Auxiliary keyboard Cable length Calendar Cooling method Certification	(supp	Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of Bui Natural	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz f model name = 5) f model name = A) It-in cooling		
	Auxiliary keyboard Cable length Calendar Cooling method Certification Protection rating		Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of Ratural C U DC +24V (-1 blied by SELV circuits (isolated	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz f model name = 5) f model name = A) It-in cooling E 54 5% ~ +15%) ²	ution))	
	Auxiliary keyboard Cable length Calendar Cooling method Certification Protection rating Operating voltage '3		Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of Natural C IP DC +24V (-1 olied by SELV circuits (isolated AC500V for one minute (betw	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz f model name = 5) f model name = A) lt-in cooling E 54 5% ~ +15%) ² from MAINS by double insula	ution))	
	Auxiliary keyboard Cable length Calendar Cooling method Certification Protection rating Operating voltage '3 Leakage current		Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of Natural Natural DC +24V (-1 blied by SELV circuits (isolated AC500V for one minute (betw	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz f model name = 5) f model name = A) It-in cooling E 54 5% ~ +15%)'² from MAINS by double insula veen DC24 and FG terminals	ution))	
	Auxiliary keyboard Cable length Calendar Cooling method Certification Protection rating Operating voltage '3 Leakage current Power consumption '5	,	Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of Natural C IP DC +24V (-1 olied by SELV circuits (isolated AC500V for one minute (betw 4.88	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz f model name = 5) f model name = A) It-in cooling E 54 5% ~ +15%) ¹² I from MAINS by double insula veen DC24 and FG terminals 96W	ation))	
	Auxiliary keyboard Cable length Calendar Cooling method Certification Protection rating Operating voltage '3 Leakage current Power consumption '5 Backup battery	,	Phase difference between Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of 10 m) (when	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz f model name = 5) f model name = A) It-in cooling E 54 5% ~ +15%)*2 If from MAINS by double insula ween DC24 and FG terminals 96W ery CR2450 × 1	ation))	
С	Auxiliary keyboard Cable length Calendar Cooling method Certification Protection rating Operating voltage '3 Leakage current Power consumption '5 Backup battery Backup battery life	,	Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of Natural Colled by SELV circuits (isolated AC500V for one minute (betw 4.85 3V lithium batte s or more at 25°C (77°F)(subjection	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz I model name = 5) f model name = A) It-in cooling E 54 5% ~ +15%)*2 I from MAINS by double insular veen DC24 and FG terminals 26W ery CR2450 × 1 act to operation temperature a	ation))	
C	Auxiliary keyboard Cable length Calendar Cooling method Certification Protection rating Operating voltage '3 Leakage current Power consumption'5 Backup battery Backup battery life Operation temperature	About 5 years	Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz f model name = 5) f model name = A) It-in cooling E 54 5% ~ +15%) ¹² I from MAINS by double insular veen DC24 and FG terminals 96W ery CR2450 × 1 ect to operation temperature at 40°C	attion))	
0	Auxiliary keyboard Cable length Calendar Cooling method Certification Protection rating Operating voltage "3 Leakage current Power consumption"5 Backup battery Backup battery life Operation temperature Storage temperature	About 5 years	Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (when end of 10 m (when end of 10 m) Natural OFFICE OF THE SELV CITCUITS (isolated AC500V for one minute (betw 4.8) 3V lithium batte 5 or more at 25°C (77°F)(subjection of the company of the co	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz f model name = 5) f model name = A) It-in cooling E 54 5% ~ +15%)*² I from MAINS by double insular veen DC24 and FG terminals 96W ery CR2450 × 1 ect to operation temperature = 40°C ~ 60°C	and condition) Degree 2	
0	Auxiliary keyboard Cable length Calendar Cooling method Certification Protection rating Operating voltage '3 Leakage current Power consumption '5 Backup battery Backup battery life Operation temperature Storage temperature	About 5 years 10% ~ 90 IEC 61131-2 comp	Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (whe	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz f model name = 5) f model name = A) lt-in cooling E 54 5% ~ +15%)'² I from MAINS by double insular veen DC24 and FG terminals few ery CR2450 × 1 eet to operation temperature in 40°C ~ 60°C % RH (41 ~ 50° C), Pollution	and condition) Degree 2 Continuous: 1.0g	
O O	Auxiliary keyboard Cable length Calendar Cooling method Certification Protection rating Operating voltage '3 Leakage current Power consumption '5 Backup battery Backup battery life Operation temperature Storage temperature Operating environment Vibration resistance	About 5 years 10% ~ 90 IEC 61131-2 comp IEC 60068-2-	Phase difference betw Maximum frequence 15 Function Keys 5 m (when end of 10 m (whe	e waveOutput phase: A, B een A and B: 90° ± 45° y response: 200 Hz I model name = 5) if model name = A) It-in cooling E 54 5% ~ +15%) ² If from MAINS by double insular i/een DC24 and FG terminals i/een DC24 and FG termina	and condition) Degree 2 Continuous: 1.0g	

¹⁾ The half-life of a backlight is defined as the original luminance being reduced by 50% when the maximum driving current is supplied to an HMI.6
2) Built-in power isolation
3) An isolated power supply is recommended.
4) Some models are in the process of application for UL and KCC certification. For more information, please consult our distributors.
5) The value of the power consumption indicates the electrical power consumed by the HMI with no peripheral devices connected.
6) The content of this catalogue may be revised without prior notice. Please consult our distributors or download the most updated version at http://www.deltaww.com