

Technical overview

GWS Z2/22 & IND



Powering Business Worldwide

10.1 HMI			
	GWS Panel PC	GWS Direct Display	GWS Remote Display
Enclosure	- Recessed enclosure with Eaton-designed frame - Frame made of anodized aluminum - Passive cooling - Mounting dimensions (WxHxD): 253.6 x 172.8 x 82 mm - External dimensions (WxHxD): 280.5 x 199.2 x 89 mm		
Front glass	- Chemically tempered protective glass - Gloss: 85 - Thickness: 3 mm		
Touch	- Projected capacitive touch 4-finger touch operation		
Display	10.1" display 1280 x 800 pixels, 16:10 - Brightness: 500 cd/m2 - Contrast ratio: 900 - Reading angle [L/R/T/B]: 85/85/85/85° - Service life of the illumination: 50,000 h		
Processor	Intel Atom E3950, Quad-Core		
Working memory	8 GB DDR3		
Mass storage	mSATA 64 GB MLC		
Battery	Can be replaced externally		
Operating system	Windows 10 IoT		
Interfaces	2 x GbE LAN, separate controllers 4 x USB 3.0 1 x DP 1 x HDMI 1 x RS232/422/485	1 x DVI-I 1 x DP 1 x USB-B	1 x Extend RX RJ45 Terminal bush
Power supply	24 V DC (18...36 V) Galvanic separation	24 V DC (20.4...28.8 V), no galvanic isolation	24 V DC (18...36 V) Galvanic separation
Voltage plug	3-pole - Configuration: + / N.C / -	3-pole - Configuration: + / FE / -	3-pole - Configuration: + / N/C / -
Degree of protection	- At the front: IP65 - At the rear: IP20		
Ambient temperature	0 °C to +45 °C		
Storage temperature	-20 °C to +60 °C		
Humidity	20 % to 85 %, non-condensing		
EMC immunity	EN 61000-6-2		
EMC emitted interference	EN 61000-6-4		
Shock	EN 60068-2-27		
Vibration	EN 60068-2-6		
Approvals	CE, ATEX	CE, ATEX	

15.6 HMI			
	GWS Panel PC	GWS Direct Display	GWS Remote Display
Enclosure	- Recessed enclosure with Eaton-designed frame - Frame made of anodized aluminum - Passive cooling - Mounting dimensions (WxHxD): 384.8 x 237.6 x 82 mm - External dimensions (WxHxD): 412.1 x 261.6 x 89 mm		
Front glass	- Chemically tempered protective glass - Gloss: 85 - Thickness: 3 mm		
Touch	- Projected capacitive touch 4-finger touch operation		
Display	15.6" HD display 1366 x 768 pixels, 16:9 - Brightness: 400 cd/m2 - Contrast ratio: 500 - Reading angle [L/R/T/B]: 85/85/80/80° - Service life of the illumination: 50,000 h		
Processor	Intel Atom E3950, Quad-Core		
Working memory	8 GB DDR3		
Mass storage	mSATA 64 GB MLC		
Battery	Can be replaced externally		
Operating system	Windows 10 IoT		
Interfaces	2 x GbE LAN, separate controllers 4 x USB 3.0 1 x DP 1 x HDMI 1 x RS232/422/485	1 x DVI-I 1 x DP 1 x USB-B	1 x Extend RX RJ45 Terminal bush
Power supply	24 V DC (18...36 V) Galvanic separation	24 V DC (20.4...28.8 V), no galvanic isolation	24 V DC (18...36 V) Galvanic separation
Voltage plug	3-pole - Configuration: + / N.C / -	3-pole - Configuration: + / FE / -	3-pole - Configuration: + / N.C / -
Degree of protection	- At the front: IP65 - At the rear: IP20		
Ambient temperature	0 °C to +45 °C		
Storage temperature	-20 °C to +60 °C		
Humidity	20 % to 85 %, non-condensing		
EMC immunity	EN 61000-6-2		
EMC emitted interference	EN 61000-6-4		
Shock	EN 60068-2-27		
Vibration	EN 60068-2-6		
Approvals	CE, ATEX	CE, ATEX	

21.5 HMI			
	GWS Panel PC	GWS Direct Display	GWS Remote Display
Enclosure	- Recessed enclosure with Eaton-designed frame - Frame made of anodized aluminum - Passive cooling - Mounting dimensions (WxHxD): 517.2 x 311.7 x 82 mm - External dimensions (WxHxD): 544 x 335.5 x 89 mm*		
Front glass	- Chemically tempered protective glass - Gloss: 85 - Thickness: 3 mm		
Touch	- Projected capacitive touch 4-finger touch operation		
Display	21.5" HD display 1920 x 1080 pixels, 16:9 - Brightness: 350 cd/m2 - Contrast ratio: 1000 - Reading angle [L/R/T/B]: 89/89/89/89° - Service life of the illumination: 50,000 h		
Processor	Intel Atom E3950, Quad-Core		
Working memory	8 GB DDR3		
Mass storage	mSATA 64 GB MLC		
Battery	Can be replaced externally		
Operating system	Windows 10 IoT		
Interfaces	2 x GbE LAN, separate controllers 4 x USB 3.0 1 x DP 1 x HDMI 1 x RS232/422/485	1 x DVI-I 1 x DP 1 x USB-B	1 x Extend RX RJ45 Terminal bush
Power supply	24 V DC (18...36 V) Galvanic separation	24 V DC (20.4...28.8 V), no galvanic isolation	24 V DC (18...36 V) Galvanic separation
Voltage plug	3-pole - Configuration: + / N.C / -	3-pole - Configuration: + / FE / -	3-pole - Configuration: + / N.C / -
Degree of protection	- At the front: IP65 - At the rear: IP20		
Ambient temperature	0 °C to +45 °C		
Storage temperature	-20 °C to +60 °C		
Humidity	20 % to 85 %, non-condensing		
EMC immunity	EN 61000-6-2		
EMC emitted interference	EN 61000-6-4		
Shock	EN 60068-2-27		
Vibration	EN 60068-2-6		
Approvals	CE, ATEX	CE, ATEX	

	Industrial PC	Extender unit
	GWS Box-PC	GWS Extend TX
Enclosure	• Mechanically stable aluminum enclosure for vertical installation inside the control cabinet • Passive cooling • External dimensions (WxHxD): 55 x 170 x 92.3 mm	• Extend TX standalone box • Plastic DIN rail housing • For mounting on 35 mm busbar (EN 50022 and 50045) • External dimensions (WxHxD): approx. 22.5 x 99 x 114.5 mm
Front glass		Cable length: • Distance of max. 100 m • Video data: full HD, 1920 x 1080 pixels at 60 Hz • Transmission cable: CAT 6a / CAT 7 / AWG 22 • 1x mini-USB 2.0 LED indicators: • Yellow: ready • Green: link
Touch		
Display		
Processor		
Working memory	Intel Atom E3950, Quad-Core	
Mass storage	8 GB DDR3	
Battery	mSATA 64 GB MLC	
Operating system	Cannot be replaced externally	
Interfaces	Windows 10 IoT	• 1 x Extend TX RJ45 Terminal bush • 1x USB 2.0, type B mini • 1 x DP
	• 2 x GbE LAN, separate controllers • 4 x USB 3.0 • 1 x DP • 1 x HDMI • 1 x RS232/422/485	
Power supply		
Voltage plug	24 V DC (20.4...28.8 V)	
	• 3-pole • Configuration: + / FE / -	5 V DC, 12 V DC, 24 V DC
Degree of protection	IP20	IP20
Ambient temperature	0 °C to +50 °C	-20° C to +60° C
Storage temperature	-20 °C to +60 °C	-20° C to +60 °C
Humidity	10 % to 90 %, non-condensing	10 % to 80 %, non-condensing
EMC immunity	EN 61000-6-2	Industrial applications as per EN 55024 & EN 61000-6-2
EMC emitted interference	EN 61000-6-4	Industrial applications as per EN 55032 Class A
Shock	EN 60068-2-27	15 g: 11 ms and 25 g: 6 ms as per EN 60068-2-27
Vibration	EN 60068-2-6	2...9 Hz: 3.5 mm amplitude, 9...200 Hz: 1 g as per EN 60068-2-6
Approvals	CE	CE



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