



-power in control



## DATA SHEET



### Advanced Graphical Interface, AGI 100 series

- Graphic overview and touch screen control
- VNC server functionality\*
- Compatible with DEIF controllers
- Easy programming
- Multi-language support
- IP65 front-protected



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No longer for sale

# 1. General information

## 1.1 Application and advantages

### 1.1.1 Application

DEIF's HMI Touch Panel, the AGI 100 series is now available in the sizes 4.3", 7", 10.1", 12.1"\* and 15". The AGI 100 series can be connected together with all types of Multi-line controllers from DEIF and several other DEIF/third party products.

The second generation of AGI 100 series HMI panels have been equipped with a VNC (Virtual Network Computing) server function. Therefore, all AGI 1xx-2 panels feature a built-in FTP/VNC server for data file transfer and for remote access to the application of the terminal from a PC with a VNC viewer. By installing the latest DEIF Screen Designer v2.0, you will enable the VNC functionality in your AGI 1xx-2 series. Your screens made in older versions of the DEIF Screen Designer can be converted when opened in the new DEIF Screen Designer v2.0

The AGI 100 series will provide you with a full graphical overview and touch screen control of the connected controllers through TCP/IP or Modbus. You can programme the connected controllers efficiently and intuitively directly from your computer and run offline or online simulations on your project before uploading you project to the AGI. This will give you the great overview over your connected units and give the end user a great interface to the switchboard control.

\*AGI 112 (1st generation) does not support VNC server functionality, see specifications chapter.

### 1.1.2 Advantages

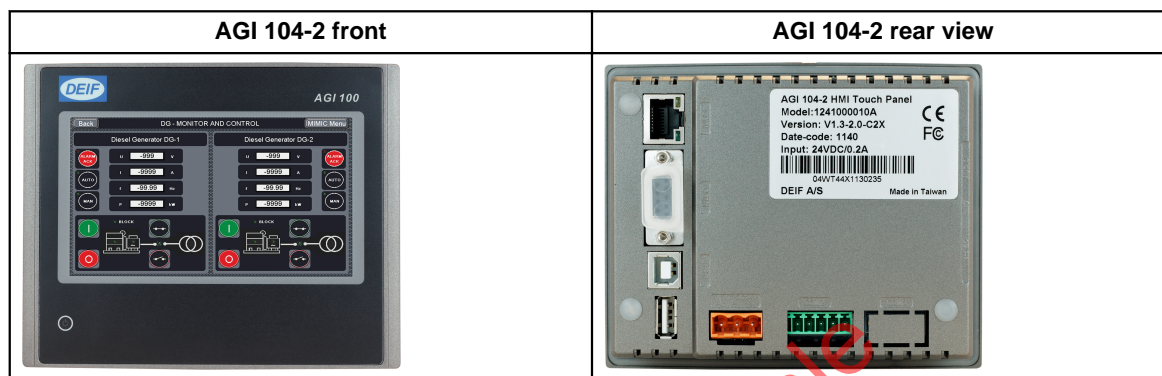
- VNC server functionality\*
- Micro SD slot\*
- Up to 32 IP addresses (4 x 8 sub IP)
- Easy programming and design tool (DEIF Screen Designer)
- Multiple level of password protection
- USB Host and Client\*
- Real-time and trending curves with datalogging
- Storage of the application and logs on Micro SD\* card or USB key
- Online and offline simulation of your project from your computer
- Ample choice of communication drivers for industrial devices
- Multiple driver communication capacity
- Full vector graphic support with True Type fonts. Portrait mode operation
- Display dynamic data in multiple formats: numerical, text, bar-graph, slider, gauge and graphic image formats
- Multiple image formats supported: Bitmap, JPEG and dynamic GIF
- Multiple object properties with dynamic control, including visibility and position
- Pop-up screens and windows
- Data acquisition and trend presentations. Trend data can be transferred to a host computer
- Multi-language applications with Unicode support. Up to 10 run-time languages are possible. Application text can be exported/imported for translation
- Powerful script languages with easy-to use editor. Macro commands can be triggered by touch screen, events and timers
- Alarms and historical alarm log. Alarm and event information can be printed or transferred to a host computer

- Compatible with DEIF's Multi-line controllers and other DEIF/third party products with TCP/IP/Modbus protocol

\* Only available on AGI 100 2nd generation (AGI 1xx-2).

### 1.1.3 Available models

The AGI 100 series will contain the following screen size models: AGI 104-2 (4.3"), AGI 107-2 (7"), AGI 110-2 (10.1") , AGI 115-2 (15") and AGI 112 (12.1")\*



\*AGI 112 (1st generation phase out 2012) will not have VNC server functionality, no Micro SD and USB Client. For more details please see: Specifications AGI 1st generation.

### 1.1.4 Variable variants

Type	Variant no.	Description	Item no.	Note
AGI 104-2	03	4.3" HMI touch panel	2912450010-03	2nd generation
AGI 107-2	09	7" HMI touch panel	2912450010-09	2nd generation
AGI 110-2	13	10.1" HMI touch panel	2912450010-13	2nd generation
AGI 115-2	12	15" HMI touch panel	2912450010-12	2nd generation
AGI 107*	10	7" HMI touch panel*	2912450010-10*	EOL Q1- 2012*
AGI 112*	11	12.1" HMI touch panel*	2912450010-11*	EOL Q3- 2012*

\* EOL = End of life



## 2. Technical information

### 2.1 Specifications

#### 2.1.1 Product data AGI 100 series (2nd generation) 4.3" and 7"

Description	AGI 104-2	AGI 107-2
Ordering information	AGI 104-2 DEIF order# 1241000010	AGI 107-2 DEIF order# 1241000011
CPU	RICS 32 bit CPU/2D IGP Accelerator	RICS 32 bit CPU/2D IGP Accelerator
Operating System	HMI RTOS, DEIF Screen Designer v1.2/2.0. 2D engine supp.	HMI RTOS, DEIF Screen Designer v1.2/2.0. 2D engine supp.
Type	QVGA TFT LCD	WVGA TFT LCD
Max Resolution	480x272 pixels	800x480
Active display area	4.3" (16:9)	7" (16:9)
Colours	64K colours	64K colours
Backlight	LED	LED
Dimming	Yes	Yes
View angle (H/V) deg	100/95	140/130
Luminance (cd/m2)	400	300
<b>Memory</b>		
Flash memory (Norflash)	8 MB	8 MB
SDRAM	32 MB	64 MB
Battery back-up	128 KB~1 MB	128 KB~1 MB
Nand Flash	128 MB	128 MB
<b>Front panel</b>		
Touch screen	4 wires, analogue resistive	4 wires, analogue resistive
Power on LED	Yes	Yes
Dimming	Yes	Yes
Front panel thickness	6 mm	6 mm
<b>Interfaces</b>		
Serial	COM1: RS-232/422/485 (DB9 female) COM2: RS-422/485 (DB9 female and 5-pin plug) COM3:RS-232 in COM1 pin 7.8	COM 1: RS-232/422/485 (DB9 female) COM2: RS-422/485 (DB9 female and 5-pin plug) COM 3: RS232 in COM1 pin 7.8
Ethernet (RJ45)	10/100 baseT	10/100 baseT
USB	1 x Host, 1 x Client	1 x Host, 1 x Client
Micro SD slot	Yes	Yes
<b>Functionality</b>		
VNC server	Yes (with DEIF Screen Designer v2.0)	Yes (With DEIF Screen Designer v2.0)
Vector graphics	Yes	Yes

Description	AGI 104-2	AGI 107-2
Multiple drivers	Yes	Yes
Multi-language	10 online languages max.	10 online languages max.
Data acquisition and trends	Yes	Yes
Recipes	Yes	Yes
Alarms	Yes	Yes
Event list	Yes	Yes
Passwords	Yes, 9 levels	Yes, 9 levels
Hardware RTC	Yes, with battery back-up	Yes, with battery back-up
Screensaver	Yes	Yes
Buzzer	Yes, audible feedback for touch screen	Yes, audible feedback for touch screen
Audio out	(Module option)	(Module option)
<b>Ratings</b>		
Power supply voltage	24V DC +/-17% (see also DEIF's battery charger product range*)	24V DC +/-17% (see also DEIF's battery charger product range*)
Current consumption	0.2 A	0.6 A
Power consumption	13 W	15 W
Weight	0.5 kg	0.8 kg
Net weight	0.3 kg	0.6 kg
Battery (internal)	Rechargeable, not user-replaceable	Rechargeable, not user-replaceable
<b>Environmental conditions</b>		
Operating temperature	0 to 50°C	0 to 50°C
Storage temperature	-20 to +60°C	-20 to +60°C
Operating and storage humidity	10 to 95% RH at 40°C, non-condensing	10 to 95% RH at 40°C, non-condensing
Protection class	Front: NEMA 4/IP66	Front: NEMA4/IP66
Shock (operation)	10~55 Hz (x, y, z direction, 1G, 30 min.)	10~55 Hz (x, y, z direction, 1G, 30 min.)
<b>Dimensions</b>		
Faceplate LxH	130 mm (5.11") x 106.2 mm (4.18")	188 mm (7.4") x 143.3 mm (5.64")
Cutout A+B	118.5 mm (4.66") x 92.5 mm (3.64")	175 mm (6.88") x 132.5 mm (5.21")
Mounting depth C	37 mm (1.46")	30 mm (1.18")
<b>Approvals</b>		
CE, FCC, UL	Emission EN 6100-6-4 Immunity EN 61000-6-2 For installation in industrial environments	Emission EN 6100-6-4 Immunity EN 61000-6-2 For installation in industrial environments

\* To maintain a high level of quality, we always recommend the use of DEIF battery chargers and auxiliary products. Please also see DEIF Smart technology page.

## 2.1.2 Product data AGI 100 series (2nd generation) 10.1" and 15"

Description	AGI 110-2	AGI 115-2
Ordering information	AGI 110-2 DEIF order# 1241000014	AGI 1157-2 DEIF order# 1241000013
CPU	RICS 32 bit CPU/2D IGP Accelerator	RICS 32 bit CPU/2D IGP Accelerator
Operating System	HMI RTOS, DEIF Screen Designer v1.2/2.0. 2D engine supp.	HMI RTOS, DEIF Screen Designer v1.2/2.0. 2D engine supp.
Type	SVGA TFT LCD	SVGA TFT LCD
Max Resolution	1024x600 pixels	1024x768 pixel
Active display area	10.1" (16:9)	15" (4:3)
Colours	65.536 colours	65.536 colours
Backlight	LED	LED
Dimming	Yes	Yes
View angle (H/V) deg	140/120	140/120
Luminance (cd/m2)	250	400
<b>Memory</b>		
Flash memory (Norflash)	8 MB	8 MB
SDRAM	64 MB	64 MB
Battery back-up	128 KB~1 MB	128 KB~1 MB
Nand Flash	128 MB	128 MB
<b>Front panel</b>		
Touch screen	4 wires, analogue resistive	5 wires, analogue resistive
Power on LED	Yes	Yes
Dimming	Yes	Yes
Front panel thickness	6 mm	6 mm
<b>Interfaces</b>		
Serial	COM1: RS-232/422/485 (DB9 female) COM2: RS-422/485 (DB9 female and 5-pin plug) COM3:RS-232 in COM1 pin 7.8	COM 1: RS-232/422/485 (DB9 female) COM2: RS-422/485 (DB9 female and 5-pin plug) COM 3: RS232 in COM1 pin 7.8
Ethernet (RJ45)	10/100 baseT	10/100 baseT
USB	1 x Host, 1 x Client	1 x Host, 1 x Client
Micro SD slot	Yes	Yes
<b>Functionality</b>		
VNC server	Yes (with DEIF Screen Designer v2.0)	Yes (With DEIF Screen Designer v2.0)
Vector graphics	Yes	Yes
Multiple drivers	Yes	Yes
Multi-language	10 online languages max.	10 online languages max.

Description	AGI 110-2	AGI 115-2
Data acquisition and trends	Yes	Yes
Recipes	Yes	Yes
Alarms	Yes	Yes
Event list	Yes	Yes
Passwords	Yes, 9 levels	Yes, 9 levels
Hardware RTC	Yes, with battery back-up	Yes, with battery back-up
Screensaver	Yes	Yes
Buzzer	Yes, audible feedback for touch screen	Yes, audible feedback for touch screen
Audio out	(Module option)	(Module option)
<b>Ratings</b>		
Power supply voltage	24V DC +/-17% (see also DEIF's battery charger product range*)	24V DC +/-17% (see also DEIF's battery charger product range*)
Current consumption	1.0 A	1.0 A
Power consumption	25 W	25 W
Weight	1.4 kg	4.0 kg
Net weight	1.2 kg	3.6 kg
Battery (internal)	Rechargeable, not user-replaceable	Rechargeable, not user-replaceable
<b>Environmental conditions</b>		
Operating temperature	0 to 50°C	0 to 50°C
Storage temperature	-20 to +60°C	-20 to +60°C
Operating and storage humidity	10 to 95% RH at 40°C, non-condensing	10 to 95% RH at 40°C, non-condensing
Protection class	Front: NEMA 4/IP66	Front: NEMA4/IP66
Shock (operation)	10~55 Hz (x, y, z direction, 1G, 30 min.)	10~55 Hz (x, y, z direction, 1G, 30 min.)
<b>Dimensions</b>		
Faceplate LxH	269.8 mm (10.62") x 212 mm (8.35")	399.1 mm (15.73") x 297.6 mm (11.73")
Cutout A+B	258.5 mm (10.19") x 200.8 mm (7.91")	384.5 mm (15.15") x 283 mm (11.15")
Mounting depth C	38 mm (1.5")	62.6 mm (2.47")
<b>Approvals</b>		
CE, FCC, UL	Emission EN 6100-6-4 Immunity EN 61000-6-2 For installation in industrial environments	Emission EN 6100-6-4 Immunity EN 61000-6-2 For installation in industrial environments

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### 2.1.3 Product data AGI 100 series (1st generation)

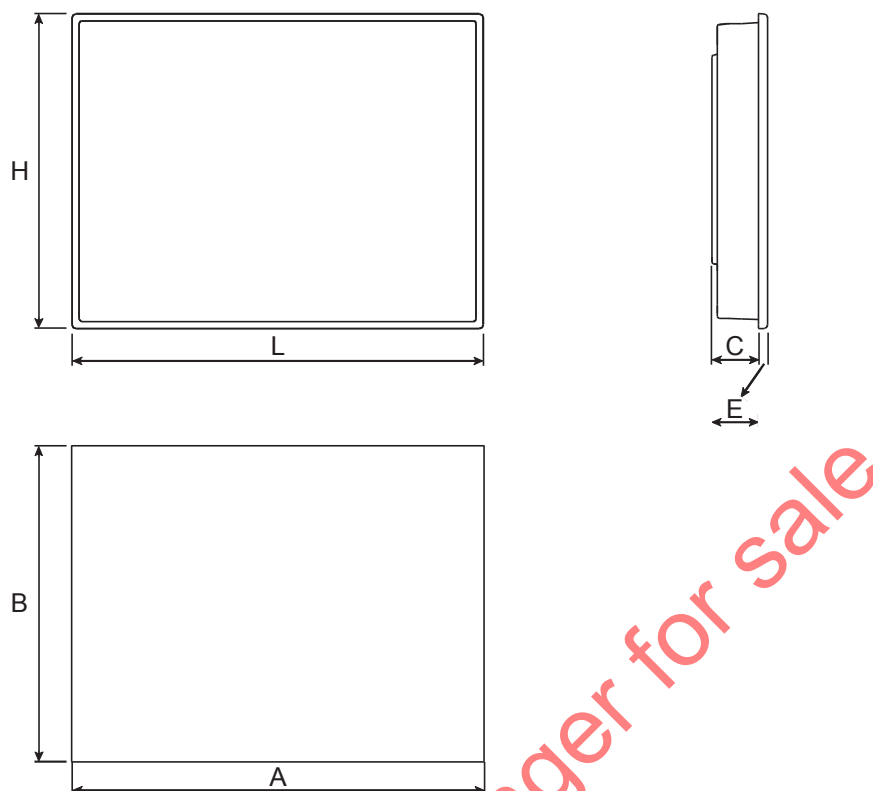
Description	AGI 107 (phased out Q1-2012)	AGI 112 (Phase out Q3-2012)
Ordering information	AGI 107 DEIF order# 1241000001	AGI 112 DEIF order# 1241000002
CPU	RICS 32 bit CPU with SOC IGP Accelerator	RICS 32 bit CPU with SOC IGP Accelerator
Operating System	HMI RTOS, DEIF Screen Designer v1.2.xx (v2.0.xx with reduced functionality)	HMI RTOS, DEIF Screen Designer v1.2.xx (v2.0 with reduced functionality)
Type	WVGA TFT LCD	SWGA TFT LCD
Max Resolution	800x480 pixels	800x600
Active display area	7" (16:9)	12.1" (4:3)
Colours	64K colours	64K colours
Backlight	LED	LED
Dimming	Yes	Yes
view angle (H/V) deg	140/130	130/110
Luminance (cd/m2)	300	350
<b>Memory</b>		
User memory	16 MB	16 MB
System memory	64 MB	64 MB
Battery back-up	128 KB~1 MB	128 KB~1 MB
<b>Front panel</b>		
Touch screen	4 wires, analogue resistive	4 wires, analogue resistive
Power on LED	Yes	Yes
Dimming	Yes	Yes
Front panel thickness	6 mm	6 mm
<b>Interfaces</b>		
Serial	COM1: RS-232/422/485 (DB9 female) COM2: RS-422/485 (DB9 female and 5-pin plug)	COM 1: RS-232/422/485 (DB9 female) COM2: RS-422/485 (DB9 female and 5-pin plug)
Ethernet (RJ45)	10/100 baseT	10/100 baseT
USB	1 x Host	1 x Host
Micro SD slot	-	-
<b>Functionality</b>		
VNC server	-	-
Vector graphics	Yes	Yes
Multiple drivers	Yes	Yes
Multi-language	10 online languages max.	10 online languages max.

Description	AGI 107 (phased out Q1-2012)	AGI 112 (Phase out Q3-2012)
Data acquisition and trends	Yes	Yes
Recipes	Yes	Yes
Alarms	Yes	Yes
Event list	Yes	Yes
Passwords	Yes, 9 levels	Yes, 9 levels
Hardware RTC	Yes, with battery back-up	Yes, with battery back-up
Screensaver	Yes	Yes
Buzzer	Yes, audible feedback for touch screen	Yes, audible feedback for touch screen
Audio out	Yes	Yes
<b>Ratings</b>		
Power supply voltage	24V DC +/-17% (see also DEIF's battery charger product range)	24V DC +/-17% (see also DEIF's battery charger product range)
Current consumption	0.4 A	0.6 A
Power consumption	10 W	18 W
Weight	0.6 kg	1.2 kg
Net weight	1.0 kg	1.55 kg
Battery (internal)	Rechargeable, not user-replaceable	Rechargeable, not user-replaceable
<b>Environmental conditions</b>		
Operating temperature	0 to 50°C	0 to 50°C
Storage temperature	-20 to +60°C	-20 to +60°C
Operating and storage humidity	10 to 95% RH at 40°C, non-condensing	10 to 95% RH at 40°C, non-condensing
Shock (operation)	10~55 Hz (x, y, z direction, 1G, 30 min.)	10~55 Hz (x, y, z direction, 1G, 30 min.)
Protection class	Front: NEMA 4/IP65	Front: NEMA 4/IP65
<b>Dimensions</b>		
Faceplate LxH	185.5 mm (7.30") x 143 mm (5.62")	315 mm (12.4") x 241 mm (9.48")
Cutout A+B	175 mm (6.89") x 133 mm (5.23")	301.5 mm (11.87") x 228 mm (8.97")
Mounting depth C	36 mm (1.41")	54.5 mm (2.14")
<b>Approvals</b>		
CE, FCC, UL	Emission EN 6100-6-4 Immunity EN 61000-6-2 For installation in industrial environments	Emission EN 6100-6-4 Immunity EN 61000-6-2 For installation in industrial environments

\* AGI 107 substitute product is AGI 107-2 (2nd generation)

To maintain a high level of quality, we always recommend the use of DEIF battery chargers and auxiliary products. Please also see DEIF Smart technology page.

## 2.1.4 Unit dimensions



Model	A	B	C	E	H	L
AGI 104-2	118.5 mm (4.66")	92.5 mm (3.64")	34.2 mm (1.34")	6 mm (0.23")	106 mm (4.17")	130 mm (5.11")
AGI 107-2	174.5 mm (6.87")	132.5 mm (5.21")	29 mm (1.14")	6 mm (0.23")	143.3 mm (5.64")	188 mm (7.4")
AGI 110-2	258.5 mm (10.19")	200.8 mm (7.91")	38 mm (1.5")	6 mm (0.23")	212 mm (8.35")	269.8 mm (10.62")
AGI 115-2	384.5 mm (15.15")	283 mm (11.15")	62.6 mm (2.47")	6 mm (0.23")	297.6 mm (11.73")	399.1 mm (15.73")
AGI 112	301.5 mm (11.87")	228 mm (8.97")	54.5 mm (2.14")	6 mm (0.23")	241 mm (9.48")	315 mm (12.4")
AGI 107*	175 mm (6.89")	133 mm (5.23")	36 mm (1.41")	6 mm (0.23")	143 mm (5.61")	185.5 mm (7.30")

Unit dimensions in mm (inches).

\*Phased out 2012, replaced with AGI 107-2



## 3. Ordering information

### 3.1 How to order

#### 3.1.1 Order specifications

Variants:

Mandatory information		
Item no.	Type	Variant no.

Example:

Mandatory information		
Item no.	Type	Variant no.
2912450010	AGI 107-2	09

#### 3.1.2 Disclaimer

DEIF A/S reserves the right to change any of the contents of this document without prior notice.

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