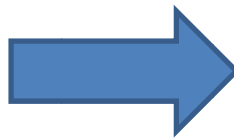


**NO:** NT-087      **PRODUCT:** H-T40M-P Safety Monitor  
**DATE:** September 2014      **TYPE:** Discontinuation Notice

Effective September 1st, 2015, the H-T40M-P series HMI will be discontinued; Replace with the NB series HMI



**H-T40M-P**



**NB3**

The H-T40M-P Monitor for the G9SP Programmable Safety Controller will be discontinued due to low sales. The recommended replacement NB3 series HMI is a standard, off-the-shelf product that requires some programming to emulate the functionality of the H-T40M-P.

### Recommended Replacements

Discontinued Product		Recommended Replacement	
Model Number	Description	Part Number(s)	Comments
G9SP-N10S-SDK	82612-0010, SL0A4021R, G9SP KIT w/ H-T40M-P	NB3Q-TW00B G9SP-N10S	Order Separately
G9SP-N10D-SDK	82612-0020, SL0A4022G, G9SP KIT w/ H-T40M-P	NB3Q-TW00B G9SP-N10D	Order Separately
G9SP-N20S-SDK	82612-0030, SL0A4023E, G9SP KIT w/ H-T40M-P	NB3Q-TW00B G9SP-N20S	Order Separately
H-T40M-P	82614-0010, SL0A4029D, H-T40M-P	NB3Q-TW00B	N/A

### Cautions on Applying Replacements

Overall dimensions and some characteristics are different.  
 The NB3 screens must be programmed by the user whereas the H-T40M-P came pre-programmed.

For more information on the NB Screen please refer to:  
[http://industrial.omron.us/en/products/catalogue/automation\\_systems/hmi/compact\\_hmi/nb/default.html](http://industrial.omron.us/en/products/catalogue/automation_systems/hmi/compact_hmi/nb/default.html)

Please refer to the information below for all of the differences.

# Detail of Differences

## Specifications

<b>Discontinued Product</b>	
	<b>H-T40M-P</b>
Front panel W x H x D	96.0 x 96.0 x 7.0 mm
Mounting Depth	40.6 mm
Cut out dimensions	89.3 x 89.3 mm
Front panel seal	IP65 / NEMA 4X (indoor use only)
Weight	0.21 kg
COM 1	9-pin female connector: RS232
Screen Size	3.3 in. diagonal
Display	Mono FSTN LCD, 16 shades of gray
Pixels	240 x 240 pixels
Back light type	LED
Back light lifetime	10,000 hours
Touch screen operations	> 1,000,000
Active area of display W x H	58.5 x 58.5 mm
Brightness (cd/m <sup>2</sup> )	110
Processor	32 – bit RISC
Status LED	PWR, COM1
Storage temperature	-10 to +60°C
Relative operating humidity	20 - 90% RH
Vibration	0.5 displacement, 10-55 Hz, 2 hours X-, Y-, Z-axis
Shock resistance	10G, 11ms 3 times in each direction of X-, Y-, Z-axis
Cooling	Natural cooling
Electrostatic discharge	IEC 61000-4-2
RF susceptibility	IEC 61000-4-3
High frequency transients	IEC 61000-4-4
CE approvals	EN 6100-6-4, EN 6100-6-2
RF emissions	CISPR 22, Class A

### Recommended Replacement

Specifications	NB3Q		NB5Q		NB7W		NB10W
	TW00B	TW01B	TW00B	TW01B	TW00B	TW01B	TW01B
Display type	3.5" TFT LCD		5.6" TFT LCD		7" TFT LCD		10.1" TFT LCD
Display resolution (H x V)	320 x 240		320 x 234		800 x 480		800 x 480
Number of colors	65,536						
Backlight	LED						
Backlight lifetime	50,000 hours of operating time at the normal temperature (25 °C)*						
Touch panel	Analog resistance membrane, resolution 1024 x 1024, life: 1 million touch operations						
Dimensions In mm (H x W x D)	103.8 x 129.8 x 52.8		142 x 184 x 46		148 x 202 x 46		210.8 x 268.8 x 54.0
Weight	310 g max.	315 g max.	620 g max.	625 g max.	710 g max.	715 g max.	1545 g max.

Specifications	NB3Q		NB5Q		NB7W		NB10W
	TW00B	TW01B	TW00B	TW01B	TW00B	TW01B	TW01B
Internal memory	128MB (including system area)						
Memory Interface	---	USB Memory	---	USB Memory	---	USB Memory	USB Memory
Serial (COM1)	RS-232C/422A/485 (not isolated), Transmission distance: 15m Max. (RS-232C), 500m Max. (RS-422A/485), Connector: D-Sub 9-pin		RS-232C, Transmission distance: 15 m Max., Connector: D-Sub 9-pin				
Serial (COM2)	---		RS-232C/422A/485 (not isolated), Transmission distance: 15m Max. (RS-232C), 500m Max. (RS-422A/485), Connector: D-Sub 9-pin				
USB Host	Equivalent to USB 2.0 full speed, type A, Output power 5V, 150mA						
USB Slave	Equivalent to USB 2.0 full speed, type B, Transmission distance: 5m						
Printer connection	PictBridge* support						
Ethernet	---	10/100 base-T	---	10/100 base-T	---	10/100 base-T	10/100 base-T

Specifications	NB3Q		NB5Q		NB7W		NB10W
	TW00B	TW01B	TW00B	TW01B	TW00B	TW01B	TW01B
Line voltage	20.4 to 27.6 VDC (24 VDC -15 to 15%)						
Power consumption	5 W	9 W	6 W	10 W	7 W	11 W	14 W
Battery lifetime	5 years (at 25 °C)						
Enclosure rating (front side)	Front operation part: IP65 (Dust proof and drip proof only from the front of the panel)						
Obtained standards	EC Directives, KC, cUL508						
Operating environment	No corrosive gases.						
Noise Immunity	Compliant with IEC61000-4-4, 2KV (Power cable)						
Ambient operating temperature	0 to 50 °C						
Ambient operating humidity	10% to 90% RH (without condensation)						

# Dimensions

Discontinued Product	Recommended Replacement
<p><b>H-T40M-P</b></p> <p>88.6 3.48</p> <p>96 3.78</p> <p>40.6 1.59</p> <p>40.1 1.57</p> <p>7.0 0.27</p> <p>88.6 3.48</p>	<p><b>NB3Q</b></p> <p>Panel</p> <p>Clamp</p> <p>15.5</p> <p>103.8</p> <p>59.6</p> <p>92.5</p> <p>91.2</p> <p>35 (min.)</p> <p>46 (max.)</p> <p>6.5</p> <p>52.8</p> <p>129.8</p> <p>118.5</p> <p>116.9</p> <p>141</p>