

CUSTOMER NOTIFICATION

SUD-TT-0033-3-E (1/4)
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**IE-780338-NS-EM1
(Control Code: D)**

Operating Precautions

Be sure to read this document before using the product.

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Notes on Using IE-780338-NS-EM1

1. Product Version

Control Code	Remark
A	
B, C, D	Use the IE-78K0-NS with control code L or later, and IE-78K0-NS-A with control code E or later.

2. Product History

No.	Bugs and Changes/Additions to Specifications	Control Code ^{Note}			
		A	B	C	D
1	The LCD function cannot be emulated.	×	√	√	√
2	The D/A converter function cannot be emulated.	×	√	√	√
3	The specification change (change in A/D conversion time selection) in the μ PD78F0338, 780336, 780338, 780326, 780328, 780316, and 780318 is not supported.	–	–	√	√
4	If a D/A conversion operation is continued for a certain amount of time (about 10 minutes or longer), output of the voltage value at the AO0 output pin is fixed to an abnormal value (AVREF1 to GND value).	×	×	×	√

×: Applicable, √: Not applicable, –: Specification not supported

Note The “control code” is the second digit from the left in the 10-digit serial number in the warranty supplied with the product you purchased (if it has not been upgraded). If the product has been upgraded, a label indicating the new version is attached to the product and the x in V-UP LEVEL x on this label indicates the control code.

3. Details of Bugs and Additions to Specifications

No.1 The LCD function cannot be emulated.

[Description]

The LCD function cannot be emulated.

[Workaround]

There is no workaround.

This restriction has been corrected in control code B.

Use the IE-78K0-NS with control code L or later, and IE-78K0-NS-A with control code E or later.

No.2 The D/A converter function cannot be emulated.

[Description]

The D/A converter function cannot be emulated.

[Workaround]

There is no workaround.

This restriction has been corrected in control code B.

Use the IE-78K0-NS with control code L or later, and IE-78K0-NS-A with control code E or later.

No.3 The specification change (change in A/D conversion time selection) in the μ PD78F0338, 780336, 780338, 780326, 780328, 780316, and 780318 is not supported.

[Description]

The specification change (change in A/D conversion time selection) in the μ PD78F0338, 780336, 780338, 780326, 780328, 780316, and 780318 is not supported.

FR02	FR01	FR00	Selection of A/D Conversion Time	
			Old Specification	New Specification
0	0	0	144/fx	144/fx
0	0	1	120/fx	120/fx
0	1	0	96/fx	96/fx
1	0	0	72/fx	576/fx
1	0	1	60/fx	480/fx
1	1	0	48/fx	384/fx
Other than above			Setting prohibited	

[Workaround]

There is no workaround.

This restriction has been corrected in control code C.

Use the IE-78K0-NS with control code L or later, and IE-78K0-NS-A with control code E or later.

No.4 If a D/A conversion operation is continued for a certain amount of time (about 10 minutes or longer), output of the voltage value at the AO0 output pin is fixed to an abnormal value (AVREF1 to GND value).

[Description]

If a D/A conversion operation is continued for a certain amount of time (about 10 minutes or longer), output of the voltage value at the AO0 output pin is fixed to an abnormal value (AVREF1 to GND value).

[Workaround]

There is no workaround.

This restriction has been corrected in control code D.

Use the IE-78K0-NS with control code L or later, and IE-78K0-NS-A with control code E or later.

4. Other Cautions

This product has the following restrictions.

- (1) Use the IE-78K0-NS with control code L or later, and IE-78K0-NS-A with control code E or later.
- (2) The switching function for number of key returns (KRSEL register (FF8FH)) cannot be emulated.
Workaround: None
- (3) When emulating port 8 of the μ PD780316, 7800318, 780326, 780328, 780336 and 780338, set PF8 and PM8 to the following values once after reset in the same way as for port 8 of the μ PD78F0338.

SFR Name	Value [H]
PM8	00
PF8	FF

- (4) When emulating port 9 of the μ PD780316, 7800318, 780326, 780328, 780336 and 780338, set PF9 and PM9 to the following values once after reset in the same way as for port 9 of the μ PD78F0338.

SFR Name	Value [H]
PM9	00
PF9	FF

- (5) The ROM correction function cannot be emulated.