YAMATAKE

Advanced Automation Company
International Business Division
Sales Department 1

No. 06-A-0012E

Date: April 20, 2006
To: Those listed
Issued by: I. Yuminaga, Sales Department 1

Subject: **SDC10** Obsoletion

Purpose: To announce the obsoletion of the **SDC10** Digital Indicating Controller

Background: The **SDC10**, which has been used for more than 10 years since its sales release in 1995, will be obsoleted for the following reasons:

- The remaining quantity that can be produced is limited because major components (microprocessor, etc.) have already been discontinued by the suppliers.
- Most sales have shifted from the **SDC10** to the **SDC15**.

Required actions:

(1) Notify **SDC10** users of the obsoletion, and request that they replace the **SDC10** with the **SDC15** by March 2007.

- The panel cutout dimensions and most of the functions are compatible. For **SDC10/SDC15** differences, refer to page 3.

(2) For replacement with the **SDC15** in applications that use communications function, request the user to change the host communications program.

- The communications protocol is the same, but different addresses are assigned.

Repair service:

Has never been available for the **SDC10** because it would cost more than a new unit. In case of product failure, replace with the **SDC15**.

Obsoletion date:

March 30, 2007

Obsoleted models:

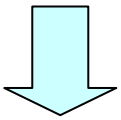
All **SDC10** models

SDC20/30 series:

The **SDC20/30** series will be also obsoleted in the near future. Replace them with the Super DigitroniK Line.

Cross reference:

Basic model number	Mounting	Control output	PV input	Power voltage	Option	Additional treatment	Coding in **C15**
C10							**C15**
	T						**Ⅰ = T**
	S						**Ⅰ = S**
		0D					**Ⅱ = R0**
		6D					**Ⅱ = V0**
			T				**Ⅲ = T**
			R				**Ⅲ = R**
			L				**Ⅲ = L**
				A			**Ⅳ = A**
				D			**Ⅳ = D**
					00		**Ⅴ = 00**
					01		**Ⅴ = 01**
					02		**Ⅴ = 02**
					03		**Ⅴ = 02**
					05		**Ⅴ = 03**
						00	**Ⅵ = 00**
						D0	**Ⅵ = D0**



SDC15 model number

Basic model number	Mounting	Control output	PV input	Power voltage	Option	Additional treatment
C15	□	□□	□	□	□□	□□
	Ⅰ	**Ⅱ**	**Ⅲ**	**Ⅳ**	**Ⅴ**	**Ⅵ**

Precautions for replacement:

(1) Differences in specifications

Item	**SDC10**	**SDC15**
Terminal screw	M3.5	M3
RS-485 terminating resistor	Necessary	Cannot be used
PV input range E: -200 to +400℃	Available	Not available
External power supply for contact input	Required (for option **03** isolated external contact input model)	Not required
Control output relay	Contact rating: 3A, 100,000 operations	Contact rating: 3A, 50,000 operations
Voltage pulse output	Open voltage: 22.5Vdc ±15% Internal resistor: 1100Ω±5%	Voltage (open): 19Vdc ±5% Internal resistor: 82Ω±0.5%
Power consumption	7VA	9VA (at using the **SDC10** equivalent functions)
Operating temperature in side-by-side mounting	0 to 45℃	0 to 40℃
Drawing out of unit internal	Available	Not available

SSR connection

SSR	**SDC10**	**SDC15**
PGM10N, **PGM10F**	1 unit	2 units in parallel
PGM (resistor type) 1 unit	Connectable (without external resistor)	Connectable (with 1kΩ external resistor)
PGM (resistor type) 2 units	Connectable (without external resistor)	Connectable (with 680Ω external resistor)
PGM (resistor type) 3 units	Not connectable	Connectable (with 330Ω external resistor)
PGM (resistor type) 4 units	Not connectable	Connectable (without external resistor)
G3PA (rating 5 to 24V)	2 units in parallel	3 units in parallel
G3PB	1 unit	3 units in parallel
G3NA	2 units in parallel	3 units in parallel

(2) Communications

The communication protocol is the same, but different addresses are assigned. For details, refer to the user's manual for the **SDC15**.

Attachment:

Notification form: **SDC10** Digital Indicating Controller discontinued