MITSUBISHI ELECTRIC

TECHNICAL BULLETIN

[Issue No.] FA-A-0062-B
[Title] Product discontinuation of ID system D-2N series
[Date of Issue] June 2009(Ver. B: April 2015)
[Relevant Models] ID system D-2N series

Thank you for your continued support of Mitsubishi ID system.

Production of all ID system D-2N series models will be discontinued.

1. Models to be discontinued (24 models)

Product name	Model	Remarks
Batteryless data carrier	D-2N03PS	Mounted on nonmetal, plate type, memory capacity of 320 bytes
	D-2N03PM	Mounted on metal, plate type, memory capacity of 320 bytes
Reader/writer	D-2N422RW	Standard type, cable length: 10m
	D-2N422RWS	Compact type, cable length: 10m
	D-2N422RW-C2	Standard type, cable length: 2m
	D-2N422RWS-C2	Compact type, cable length: 2m
ID interface module	AD35ID1	Compatible with A and QnA series. 1-channel reader/writer connection
	AD35ID2	Compatible with A and QnA series. 2-channel reader/writer connection
	A1SD35ID1	Compatible with AnS and QnAS series. 1-channel reader/writer connection
	A1SD35ID2	Compatible with AnS and QnAS series. 2-channel reader/writer connection
	QD35ID1	Compatible with Q series. 1-channel reader/writer connection
	QD35ID2	Compatible with Q series. 2-channel reader/writer connection
	AJ65BT-D35ID2	For CC-Link, 2-channel reader/writer connection
ID controller	D-2N232IF2	For RS-232C, 2-channel reader/writer connection
Software package	SW0D5F-DIDP	Communication library for general-purpose personal computers
Cable	D-NS422CAB10	10m cable for extension of a reader/writer, D-2N422RW(-C2) or D-2N422RWS(-C2)
	D-NS422CAB20	20m cable for extension of a reader/writer, D-2N422RW(-C2) or D-2N422RWS(-C2)
	D-NS422CAB40	40m cable for extension of a reader/writer, D-2N422RW(-C2) or D-2N422RWS(-C2)
	D-NS422CAB100	100m cable for extension of a reader/writer, D-2N422RW(-C2) or D-2N422RWS(-C2)
Handy controller	D-20HC	Handy controller with Japanese display (supplied with a power supply adapter and a rechargeable battery)
	D-20HC-E	Handy controller with English display (supplied with a power supply adapter and a rechargeable battery)
	D-20HC-PS	Power supply adapter
	D-20HC-BAT	Rechargeable battery
	D-2N20HC-RW	Reader/writer for handy controller

MITSUBISHI ELECTRIC CORPORATION

2. Schedule
• Order acceptance: Through December 31, 2010
• Production discontinuation: January 31, 2011

3. Reasons for discontinuing production
Some parts of the products are now obsolete. Therefore, we will have difficulty to maintain the production system.

4. Repair acceptance
• Repair acceptance: Through January 31, 2018 (For 7 years after production discontinuation)
Repair of a data carrier will be accepted only when it is defective.
Note that repair of a data carrier that has reached the end of its write life is not acceptable. It is advisable to have a sufficient quantity of spares.

5. Alternative models
There are no alternative Mitsubishi models. Therefore, please consider using our partner manufacturer's products (Balluff ID system "BIS M series", B & PLUS ID system "Z series"), which can be connected to Mitsubishi programmable controllers.

6. Replacement with Balluff ID system "BIS M series" or B & PLUS ID system "Z series"
Balluff ID system "BIS M series" models or B & PLUS ID system "Z series" models are recommended as the alternatives of Mitsubishi ID system D-2N series models because they are connectable to Mitsubishi programmable controllers.
For relevant models, refer to Table 6.5 and 6.6 (pages 9/11 to 10/11.)

For details of the Balluff ID system "BIS M series" and B & PLUS ID system "Z series", please contact Balluff, Inc.

Balluff Inc.   Website address: www.balluff.com

(1) Features of the BIS M series
• Batteryless and electromagnetic induction type like the D-2N series
• The data carrier (BIS M-125-01/L) has a larger memory capacity (752 bytes) than the D-2N series, and is fully compatible with respect to the external dimensions.
• ID controllers for MELSEC-Q and for CC-Link (compatible with Balluff or Mitsubishi sequence programs) are available.

(2) Features of the Z series
• Batteryless and electromagnetic induction type like the D-2N series
• The data carrier (Z1-AA04-02K) has a larger memory capacity (2K bytes) than the D-2N series, and is fully compatible with respect to the external dimensions.
• The data carrier (Z1-AA04-02K) has a larger number of writes (unlimited) than the D-2N series.
• The data carrier (Z1-AA04-02K) has a larger operating temperature range (-25 to +70℃) than the D-2N series.
• ID controllers for MELSEC-Q and for CC-Link (compatible with B & PLUS or Mitsubishi sequence programs) are available.
• ID system can be configured at low cost.

(3) Precautions on replacement

Take into account the following before replacement because there are some differences depending on the model.

(a) Installation conditions

- Depending on the conditions of the data carrier (such as whether it is mounted on a metal or nonmetallic surface), the maximum communication distance varies. Therefore, consider the communication distance in the actual conditions.
  If a data carrier of the same external dimensions (BIS M-125-01/L, Z1-AA04-02K) is used, the communication distance decreases up to 12mm (BIS M series) or up to 10mm (Z series) when it is mounted on a nonmetallic surface.
  (Non-metal mount, reading: from 40mm to 28mm for the BIS M series, from 40mm to 30mm for the Z series)
- Influence caused by the surrounding environment (noise) differs depending on the operating environment. Checking the communication condition in the actual environment is recommended.
- The reader/writers are different in installation and external dimensions.
- The maximum cable extension distance is 25m.
  If a distance longer than 25m is required, take action such as using an ID controller for CC-Link.
- For mobile communication, check whether communication at the present mobile speed is available after replacement or not. (The communication distance also needs to be adjusted according to the mobile speed.)

(b) Use of the alternatives with Mitsubishi ID system D-2N series (compatibility)

The BIS M series or Z series data carriers, reader/writers, ID controllers, extension cables and other products cannot be used with the D-2N series products.
The same series products must be used.
The following items are compatible between the D-2N and BIS M series or between the D-2N and Z series, and the relevant products can be replaced easily.

Compatible item	D-2N series	BIS M series	Z series	Description
ID controller instructions for MELSEC-Q series	QD35ID1 (1 channel) QD35ID2 (2 channels)	BIS M-688-002 (2 channels)	Z4-Q002 (2 channels)	Existing sequence programs used on the QD35ID1 and QD35ID2 can be utilized. Dedicated instructions are supported. (Only the BIS M series or Z series ID controller with 2 channels can be used.)
ID controller instructions for CC-Link	AJ65BT-D35ID2 (2 channels)	BIS M-689-002 (2 channels)	Z4-C002 (2 channels)	Existing sequence programs used on the AJ65BT-D35ID2 can be utilized.
External dimensions of data carrier	D-2N03PS (mounted on nonmetal) D-2N03PM (mounted on metal)	BIS M-125-01/L	Z1-AA04-02K	Because the external and installation dimensions are the same, the alternative model can be installed in the same location without change.

(c) Oil resistance[1]

1) Oil resistance of the BIS M series

The material of the data carrier (BIS M-125-01/L) is PBT and epoxy resin filling, and the housing of the reader/writer (BIS M-300-001-S115) is made of nickel-plated brass. Therefore, these products have excellent oil resistance.

2) Oil resistance of the Z series

The data carrier (Z1-AA04-02K) and the housing of the reader/writer (Z3-A010-CN) are made of PBT. Therefore, these products have excellent oil resistance.

*1: Oil resistance varies depending on the oil type or operating environment. Previous checking is recommended.

(d) Others

1) BIS M series

• The number of writes to the data carrier (BIS M-125-01/L) is changed from 300,000 times (D-2N series, -20 to +60℃) to 100,000 times (BIS M-125-01/L, -25 to +70℃).
  If the number of writes is an important issue, use an ISO15693-compliant data carrier. (The external dimensions are different.)

• The storage ambient temperature for the data carrier (BIS M-125-01/L) is changed from -40 to +125℃ (D-2N series) to -40 to +85℃ (BIS M-125-01/L).
  The storage ambient temperature for an ISO15693-compliant data carrier is -25 to +85℃.

2) Z series

• The storage ambient temperature for the data carrier (Z1-AA04-02K) is changed from -40 to +125℃ (D-2N series) to -40 to +85℃ (Z1-AA04-02K).
  The storage ambient temperature for data carriers with no dimensional and installation compatibility (Z1-FA01-128, Z1-E02-128, Z1-B011-128) is -25 to +120℃.

(4) Performance comparison

Table 6.1 Data carrier performance comparison between Mitsubishi ID system D-2N series and Balluff ID system BIS M series (nonmetal-mount type data carrier)

○: Compatible, △: Partially changed, -: Incompatible

Item / Model			Mitsubishi D-2N series D-2N03PS		Balluff BIS M series BIS M-125-01/L		Compatibility	BIS M-111-02/L		Compatibility
Standard			-		ISO14443		-	ISO15693		-
Memory capacity			320 bytes (EEPROM)		752 bytes[*1] (EEPROM)		○	2000 bytes[*1] (FRAM)		○
Transmission frequency			409.6kHz (receiving) 204.8kHz (sending)		13.56MHz		-	13.56MHz		-
Max. communication distance (Varies by operating conditions)	Read		18mm	40mm	20mm	28mm	△	28mm	45mm	○
	Write		18mm	30mm	20mm	28mm	△	28mm	45mm	○
Life	No. of communications	Read	Unlimited		Unlimited		○	Unlimited		○
		Write	300,000 times (-20 to +60℃) 100,000 times (+61 to 70℃)		100,000 times		△	10 billion times		○
	Data retention		10 years after data writing		10 years after data writing		○	10 years after data writing		○
Operating ambient temperature			-20 to +70℃		-25 to +70℃		○	-25 to +70℃		○
Storage ambient temperature			-40 to +125℃		-40 to +85℃		△	-25 to +85℃		△
Protection rating			IP67		IP67		○	IP67		○
Material			PBT, urethane resin filling		PBT, epoxy resin filling		-	PA6		-
External dimensions			30×30×6mm		30×30×6mm		○	φ30×2.5mm		-
Shape/Installation method			Plate/Screw type		Plate/Screw type		○	Round/Screw type		-
Communication time (between data carrier and reader/writer (controller))	Read	20 words	65ms		BIS M-688-001: 80ms[*2] BIS M-688-002: 130ms[*3]		△ △	BIS M-688-001: 90ms[*2] BIS M-688-002: 180ms[*3]		△ △
	Write	20 words	120ms		BIS M-688-001: 90ms[*2] BIS M-688-002: 210ms[*3]		○ △	BIS M-688-001: 120ms[*2] BIS M-688-002: 320ms[*3]		○ △
Applicable reader/writer			D-2N422RWS(-C2)	D-2N422RW(-C2)	BIS M-300-001-S115	BIS M-301-001-S115	-	BIS M-300-001-S115	BIS M-301-001-S115	-
			Compact PBT type, urethane resin filling	Standard PBT type, urethane resin filling	Cylindrical nickel-plated brass	Large housing, PBT		Cylindrical nickel-plated brass	Large housing, PBT	

*1: When the bank function is enabled for the ID controller (that supports Mitsubishi sequence programs), available memory capacity is 688 bytes.

*2: Communication time of the ID controller for MELSEC-Q (supporting Balluff sequence programs only). Equivalent to that of the ID controller for CC-Link, BIS M-689-001.

*3: Communication time of the ID controller for MELSEC-Q (supporting Mitsubishi sequence programs). Equivalent to that of the ID controller for CC-Link, BIS M-689-002.

Table 6.2 Data carrier performance comparison between Mitsubishi ID system D-2N series and Balluff ID system BIS M series (metal-mount type data carrier)

○: Compatible, △ : Partially changed, -: Incompatible

Item / Model			Mitsubishi D-2N series	Balluff BIS M series			
			D-2N03PM	BIS M-125-01/L	Compatibility	BIS M-122-02/A	Compatibility
Standard			-	ISO14443	-	ISO15693	-
Memory capacity			320 bytes (EEPROM)	752 bytes[*1] (EEPROM)	○	2000 bytes[*1] (FRAM)	○
Transmission frequency			409.6kHz (receiving) 204.8kHz (sending)	13.56MHz	-	13.56MHz	-
Max. communication distance (Varies by operating conditions)		Read	15mm	15mm	○	6mm	△
		Write	12mm	15mm	○	6mm	△
Life	No. of communications	Read	Unlimited	Unlimited	○	Unlimited	○
		Write	300,000 times (-20 to +60℃) 100,000 times (+61 to +70℃)	100,000 times	△	10 billion times	○
	Data retention		10 years after data writing	10 years after data writing	○	10 years after data writing	○
Operating ambient temperature			-20 to +70℃	-25 to +70℃	○	-25 to +70℃	○
Storage ambient temperature			-40 to +125℃	-40 to +85℃	△	-25 to +85℃	△
Protection rating			IP67	IP67	○	IP67	○
Material			PBT, urethane resin filling	PBT, epoxy resin filling	-	PA12	-
External dimensions			30×30×6mm	30×30×6mm	○	φ10×4.5mm	-
Shape/Installation method			Plate/Screw type	Plate/Screw type	○	Round	-
Communication time (between data carrier and reader/writer (controller))	Read	20 words	65ms	BIS M-688-001: 80ms[*2] BIS M-688-002: 130ms[*3]	△ △	BIS M-688-001: 90ms[*2] BIS M-688-002: 180ms[*3]	△ △
	Write	20 words	120ms	BIS M-688-001: 90ms[*2] BIS M-688-002: 210ms[*3]	○ △	BIS M-688-001: 120ms[*2] BIS M-688-002: 320ms[*3]	○ △
Applicable reader/writer			D-2N422RWS(-C2)	BIS M-300-001-S115	-	BIS M-302-001-S115	-
			Compact PBT type, urethane resin filling	Cylindrical nickel-plated brass		Cylindrical nickel-plated brass	

*1: When the bank function is enabled for the ID controller (that supports Mitsubishi sequence programs), available memory capacity is 688 bytes.

*2: Communication time of the ID controller for MELSEC-Q (supporting Balluff sequence programs only). Equivalent to the ID controller for CC-Link, BIS M-689-001.

*3: Communication time of the ID controller for MELSEC-Q (supporting Mitsubishi sequence programs). Equivalent to the ID controller for CC-Link, BIS M-689-002.

Table 6.3 Data carrier performance comparison between Mitsubishi ID system D-2N series and B & PLUS K.K. ID system Z series (nonmetal-mount type data carrier)

○: Compatible, △: Partially changed, -: Incompatible

Item		Model → Mitsubishi D-2N series D-2N03PS		B & PLUS Z series Z1-AA04-02K	Compatibility	Z1-FA01-128	Compatibility	Z1-EC02-128	Compatibility	Z1-B011-128	Compatibility
Standard		-		ISO15693	-	ISO15693	-	ISO15693	-	ISO15693	-
Memory capacity		320 bytes (EEPROM)		2K bytes[*1] (FRAM)	○	112 bytes (EEPROM)	△	112 bytes (EEPROM)	△	112 bytes (EEPROM)	△
Transmission frequency		409.6kHz (receiving) 204.8kHz (sending)		13.56MHz	-	13.56MHz	-	13.56MHz	-	13.56MHz	-
Max. communication distance (Varies by operating conditions)	Read	18mm	40mm	30mm	△	35mm	△	34mm	△	45mm	○
	Write	18mm	30mm	30mm	○	35mm	○	34mm	○	45mm	○
Life	No. of communications Read	Unlimited		Unlimited	○	Unlimited	○	Unlimited	○	Unlimited	○
	No. of communications Write	300,000 times (-20 to +60℃) 100,000 times (+61 to 70℃)		Unlimited	○	100,000 times	△	100,000 times	△	100,000 times	△
	Data retention	10 years after data writing		10 years after data writing	○	10 years after data writing	○	10 years after data writing	○	10 years after data writing	○
Operating ambient temperature		-20 to +70℃		-25 to +70℃	○	-20 to +80℃	○	-20 to +80℃	○	-20 to +80℃	○
Storage ambient temperature		-40 to +125℃		-40 to +85℃	△	-25 to +120℃	△	-25 to +120℃	△	-25 to +120℃	△
Protection rating		IP67		IP67	○	IP67	○	IP67	○	IP67	○
Material		PBT, urethane resin filling		PBT	-	Glass fiber cloth	-	Almina ceramic	-	PA6	-
External dimensions		30×30×6mm		30×30×6mm	○	φ16×0.9mm	-	φ26×3.4mm	-	φ50×8.3mm	-
Shape/Installation method		Plate/Screw type		Plate/Screw type	○	Round	-	Round/Screw type	-	Round/Screw type	-
Communication time (between data carrier and reader/writer (controller))	Read 20 words	65ms		125ms (200ms in 64-byte data communication)	△	125ms (200ms in 64-byte data communication)	△	125ms (200ms in 64-byte data communication)	△	125ms (200ms in 64-byte data communication)	△
	Write 20 words	120ms		125ms to 187.5ms (200ms to 300ms in 64-byte data communication)	△	125ms to 187.5ms (200ms to 300ms in 64-byte data communication)	△	125ms to 187.5ms (200ms to 300ms in 64-byte data communication)	△	125ms to 187.5ms (200ms to 300ms in 64-byte data communication)	△
Applicable reader/writer		D-2N422RWS(-C2) Compact PBT type, urethane resin filling	D-2N422RW(-C2) Standard PBT type, urethane resin filling	Z3-A010-CN Square PBT	-	Z3-A010-CN Square PBT	-	Z3-A010-CN Square PBT	-	Z3-A010-CN Square PBT	-

*1: When the bank function is enabled for the ID controller (that supports Mitsubishi sequence programs), available memory capacity is 688 bytes.

Table 6.4 Data carrier performance comparison between Mitsubishi ID system D-2N series and B & PLUS K.K. ID system Z series (metal-mount type data carrier)

○: Compatible, △: Partially changed, -: Incompatible

Item		Model	Mitsubishi D-2N series D-2N03PM	B & PLUS Z series Z1-AA04-02K	Compa tibility	Z1-EC02-128	Compa tibility	Z1-B011-128	Compa tibility
Standard			-	ISO15693	-	ISO15693	-	ISO15693	-
Memory capacity			320 bytes (EEPROM)	2K bytes[*1] (FRAM)	○	112 bytes (EEPROM)	△	112 bytes (EEPROM)	△
Transmission frequency			409.6kHz (receiving) 204.8kHz (sending)	13.56MHz	-	13.56MHz	-	13.56MHz	-
Max. communication distance (Varies by operating conditions)		Read	15mm	22mm	○	35mm	○	45mm	○
		Write	12mm	22mm	○	35mm	○	45mm	○
Life	No. of communications	Read	Unlimited	Unlimited	○	Unlimited	○	Unlimited	○
		Write	300,000 times (-20 to +60℃) 100,000 times (+61 to +70℃)	Unlimited	○	100,000 times	△	100,000 times	△
	Data retention		10 years after data writing	10 years after data writing	○	10 years after data writing	○	10 years after data writing	○
Operating ambient temperature			-20 to +70℃	-25 to +70℃	○	-20 to +80℃	○	-20 to +80℃	○
Storage ambient temperature			-40 to +125℃	-40 to +85℃	△	-25 to +120℃	△	-25 to +120℃	△
Protection rating			IP67	IP67	○	IP67	○	IP67	○
Material			PBT, urethane resin filling	PBT	-	Almina ceramic	-	PA6	-
External dimensions			30×30×6mm	30×30×6mm	○	φ26×3.4mm	-	φ50×8.3mm	-
Shape/Installation method			Plate/Screw type	Plate/Screw type	○	Round/Screw type	-	Round/Screw type	-
Communication time (between data carrier and reader/writer (controller))	Read	20 words	65ms	125ms (200ms in 64-byte data communication)	△	125ms (200ms in 64-byte data communication)	△	125ms (200ms in 64-byte data communication)	△
	Write	20 words	120ms	125ms to 187.5ms (200ms to 300ms in 64-byte data communication)	△	125ms to 187.5ms (200ms to 300ms in 64-byte data communication)	△	125ms to 187.5ms (200ms to 300ms in 64-byte data communication)	△
Applicable reader/writer			D-2N422RWS(-C2)	Z3-A010-CN	-	Z3-A010-CN	-	Z3-A010-CN	-
			Compact PBT type, urethane resin filling	Square PBT		Square PBT		Square PBT	

*1: When the bank function is enabled for the ID controller (that supports Mitsubishi sequence programs), available memory capacity is 688 bytes.

(5) List of discontinued and alternative models

Table 6.5 List of Mitsubishi ID system D-2N series models and alternative Balluff ID system BIS M series models

Product name		Mitsubishi ID system	Balluff ID system	Remarks (restrictions)
	Series	D-2N series	BIS M series	
	Type	Batteryless, electromagnetic induction	Batteryless, electromagnetic induction	
		Model	Model	
ID interface module	MELSEC-An 1ch	AD35ID1	None	-
	MELSEC-An 2ch	AD35ID2	None	-
	MELSEC-AnS 1ch	A1SD35ID1	None	-
	MELSEC-AnS 2ch	A1SD35ID2	None	Please consider transition to MELSEC-Q series (BIS M series) system.
			None	
	MELSEC-Q 1ch	QD35ID1	None (2-channel module can be used.)	-
	MELSEC-Q 2ch	QD35ID2	BIS M-688-001 (QD35ID2 instructions are not supported. Balluff dedicated instructions are available.)	Reader/writer connection: Connector → Terminal block
			BIS M-688-002 (QD35ID2 instructions and Mitsubishi dedicated instructions are supported.)	
	CC-Link 2ch	AJ65BT-D35ID2	BIS M-689-001 (AJ65BT-D35ID2 instructions are not supported. Balluff dedicated instructions are available.)	No dimensional and installation compatibility
			BIS M-688-002 (AJ65BT-D35ID2 instructions and Mitsubishi dedicated instructions are supported.)	
RS-232C ID controller	2ch	D-2N232IF2	None (Reader/writer with built-in RS-232C interface can be used.)	No hardware and software compatibility
	Software for personal computer	SW0D5F-DIDP	None	-
Data carrier	Card type	None	BIS M-120-01/L (85.6×54×0.76mm, 752-byte EEPROM, ISO14443)	No dimensional compatibility
	Round type	None	BIS M-101-01/L (φ30×1.6mm, 752-byte EEPROM, ISO14443)	
			BIS M-102-01/L (φ50×1.6mm, 752-byte EEPROM, ISO14443)	
			BIS M-122-02/A (φ10×4.5mm, 2000-byte FRAM, ISO15693)	
			BIS M-110-02/L (φ20×2.5mm, 2000-byte FRAM, ISO15693)	
			BIS M-111-02/L (φ30×2.5mm, 2000-byte FRAM, ISO15693)	
			BIS M-112-02/L (φ50×3.0mm, 2000-byte FRAM, ISO15693)	
	Plate type (□30×30)	D-2N03PS (320 bytes) D-2N03PM (320 bytes)	BIS M-125-01/L (752-byte EEPROM, ISO14443)	(1) Max. communication distance (nonmetal-mount, reading): 40mm → 28mm (2) Write life: 300,000 → 100,000 times
Reader/writer	Compact (tag metal-mount)	D-2N422RWS D-2N422RWS-C2	BIS M-300-001-S115	No dimensional and installation compatibility
	Standard	D-2N422RW D-2N422RW-C2	BIS M-301-001-S115	No dimensional and installation compatibility
Extension cable for reader/writer	10m	D-NS422CAB10	BKS-S115-PU_ (straight type, max. distance: 25m)	Max. extension distance: 200m (100m×2) → 25m
	20m	D-NS422CAB20	BKS-S116-PU_ (right-angle type, max. distance: 25m)	
	40m	D-NS422CAB40	None	Transition to CC-Link can extend the length.
	100m	D-NS422CAB100	None	Transition to CC-Link can extend the length.
Handy controller	Handy controller	D-20HC/-E	BIS M-810-0-006	(1) No hardware and software compatibility (2) English display only
	Power supply adapter	D-20HC-PS (included)	BIS C-701/A	Must be separately purchased.
	Rechargeable battery	D-20HC-BAT (included)	BIS C-81.2.4V (included)	-

Table 6.6 List of Mitsubishi ID system D-2N series models and alternative B & PLUS K.K. ID system Z series models

Product name		Mitsubishi ID system	B & PLUS ID system	Remarks (restrictions)
	Series	D-2N series	Z series	
	Type	Batteryless, electromagnetic induction	Batteryless, electromagnetic induction	
Product name		**Model**	**Model**	
ID interface module	MELSEC-An 1ch	AD35ID1	None	-
	MELSEC-An 2ch	AD35ID2	None	-
	MELSEC-AnS 1ch	A1SD35ID1	None	-
	MELSEC-AnS 2ch	A1SD35ID2	None	Please consider transition to MELSEC-Q series (Z series) system.
			None	
	MELSEC-Q 1ch	QD35ID1	None (2-channel module can be used.)	-
	MELSEC-Q 2ch	QD35ID2	Z4-Q001 (QD35ID2 instructions are not supported. B & PLUS dedicated instructions are available.)	Reader/writer connection: Connector → Terminal block
			Z4-Q002 (QD35ID2 instructions and Mitsubishi dedicated instructions are supported.)	
	CC-Link 2ch	AJ65BT-D35ID2	Z4-C001 (AJ65BT-D35ID2 instructions are not supported. B & PLUS dedicated instructions are available.)	No dimensional and installation compatibility Connector connection: D-sub 9 pin
			Z4-C002 (AJ65BT-D35ID2 instructions and Mitsubishi dedicated instructions are supported.)	
RS-232C ID controller	2ch	D-2N232IF2	None	No hardware and software compatibility
	Software for personal computer	SW0D5F-DIDP	None	-
Data carrier	Card type	None	None	-
	Round type	None	Z1-FA01-128 (ϕ16×0.9mm, 112-byte EEPROM, ISO15693)	Flexible data carrier, no dimensional compatibility
			Z1-EC02-128 (ϕ26×3.4mm, 112-byte EEPROM, ISO15693)	Ceramic data carrier, no dimensional compatibility
			Z1-B011-128 (ϕ50×8.3mm, 112-byte EEPROM, ISO15693)	Long distance data carrier, no dimensional compatibility
	Plate type (□30×30)	D-2N03PS (320 bytes)	Z1-AA04-02K (2K-byte FRAM, ISO15693)	(1) Max. communication distance (nonmetal-mount, reading): 40mm → 30mm (2) Write life: 300,000 → unlimited
		D-2N03PM (320 bytes)		
Reader/writer	Compact (tag metal-mount)	D-2N422RWS	Z3-A010-CN	No dimensional and installation compatibility
		D-2N422RWS-C2		
	Standard	D-2N422RW		
		D-2N422RW-C2		
Extension cable for reader/writer	10m	D-NS422CAB10	Z7-A001A-PU_ (straight type, terminal block connection, max. distance: 25m)	Max. extension distance: 200m (100m×2) → 25m
			Z7-A002A-PU_ (right-angle type, terminal block connection, max. distance: 25m)	
	20m	D-NS422CAB20	Z7-A005A-PU_ (straight type, D-sub 9 pin, max. distance: 25m)	
			Z7-A006A-PU_ (right-angle type, D-sub 9 pin, max. distance: 25m)	
	40m	D-NS422CAB40	None	Transition to CC-Link can extend the length.
	100m	D-NS422CAB100	None	Transition to CC-Link can extend the length.
Handy controller	Handy controller	D-20HC/-E	None	-
	Power supply adapter	D-20HC-PS (included)	None	-
	Rechargeable battery	D-20HC-BAT (included)	None	-

[Issue No.] FA-A-0062-B

REVISIONS

Version	Print Date	Revision
-	June 2009	First edition
A	July 2010	Correction of errors in "(3) Performance comparison"
B	April 2015	Addition of B & PLUS K.K. ID system "Z series"