

Title:	Error List 1	ID:			
		0100			
Date in:	Response:	Model:	Author:		
2003-05-08	2003-05-08	-	CMa		

The Status Register

DM200

Status Information								Error Information							
Action				Sub-Action				Error Message							
X:=Ah				Y:=Sh				Z:=EEh							
Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0

X {0..15}; {0..\$F}
 Y {0..15}; {0..\$F}
 Z {0..255}; {0..\$FF}

Overview Status Process Flow Messages

Import Pate Status Messages (1904) (from Transfer Station to Stacker Level)					
Status Code			Status		Description
Ah	Sh	EEh*)	Hex	Dec	
1	0	00	1000	4096	Internal Update of Registers. Normally carrousel starts positioning. Note that the carrousel positioning is an independent process and may therefore take place any time.
1	1	00	1100	4352	Lift moves to lower input transfer height position. The turn mechanism is lined-up with the stacker.
1	2	00	1200	4608	Gate is opened and shovel mechanism turns out to transfer position

1	3	00	1300	4864	Shovel is extended at lower transfer height
1	4	00	1400	5120	Shovel mechanism lifts plate up at input transfer position
1	5	00	1500	5376	Shovel mechanism turns back in to carrousel
1	6	00	1600	5632	Gate is closed
1	7	00	1700	5888	Internal status check
1	8	00	1800	6144	Lift travels to desired cassette level specified by level (DM5) and the pitch (DM23)
1	9	00	1900	6400	The desired level – higher stacker height position - is reached and the shovel is extended into the stacker
1	A	00	1A00	6656	The outer shovel position has been detected and the lift lower lift to lower stacker height position
1	B	00	1B00	6912	The shovel is pulled back
1	C	00	1C00	7168	The back position of the detected and all movements are completed
1	D	00	1D00	7424	Reset sequence

*) EEh is "0" during normal operation. An error code is set on failure.

Export Pate Status Messages (1905) (from Stacker Level to Transfer Station)					
Status Code			Status		Description
Ah	Sh	EEh	Hex	Dec	
2	0	00	2000	8192	Internal Update of Registers. Normally carrousel starts positioning. Note that the carrousel positioning is an independent process and may therefore take place any time.
2	1	00	2100	8448	Lift travels to desired cassette level specified by level (DM5) and the pitch (DM23). The height position is the lower stacker height position.
2	2	00	2200	8704	The turn mechanism is aligned to the stacker Gate is opened and shovel mechanism turns out to transfer position
2	3	00	2300	8960	Shovel is extended at lower stacker height position under the plate. And on reach of the outer shovel position the lift is moved to the higher stacker height position.

2	4	00	2400	9216	The shovel is pulled back with the plated loaded Shovel mechanism lifts plate up at input transfer position
2	5	00	2500	9472	Used for internal checks of plate presence. Shovel mechanism turns back in to carrousel
2	6	00	2600	9728	Lift moves to higher output transfer height position
2	7	00	2700	9984	Gate is opened and shovel mechanism turns out to transfer position
2	8	00	2800	10240	Shovel is extended at higher transfer height position. Waiting for outer shovel position signal.
2	9	00	2900	10496	Shovel mechanism drops plate at input transfer position by moving to lower transfer height position.
2	A	00	2A00	10752	Shovel mechanism turns back in to carrousel
2	B	00	2B00	11008	The Gate is closed
2	C	00	2C00	11264	The positions are checked 2300and all movements are completed
2	D	00	2D00	11520	Reset sequence

Exit Pate Status Messages (1906) (from Lift Shovel to Transfer Station)

Status Code			Status		Description
Ah	Sh	EEh	Hex	Dec	
3	6	00	3600	13824	Lift moves to higher output transfer height position
3	7	00	3700	14080	Gate is opened and shovel mechanism turns out to transfer position
3	8	00	3800	14336	Shovel is extended at higher transfer height position. Waiting for outer shovel position signal.
3	9	00	3900	14592	Shovel mechanism drops plate at input transfer position by moving to lower transfer height position.
3	A	00	3A00	14848	Shovel mechanism turns back in to carrousel
3	B	00	3B00	15104	The Gate is closed
3	C	00	3C00	15360	The positions are checked 2300and all movements are completed
3	D	00	3D00	15616	Reset sequence

Enter Plate Pate Status Messages (1907) (from Transfer Station to Lift Shovel)

Status Code			Status		Description
Ah	Sh	EEh	Hex	Dec	
6	0	00	6000	24576	Internal Update of Registers. Normally carrousel starts positioning. Note that the carrousel positioning is an independent process and may therefore take place any time.
6	1	00	6100	24832	Lift travels to desired cassette level specified by level (DM5) and the pitch (DM23). The height position is the lower stacker height position.
6	2	00	6200	25088	The turn mechanism is aligned to the stacker Gate is opened and shovel mechanism turns out to transfer position
6	3	00	6300	25344	Shovel is extended at lower stacker height position under the plate. And on reach of the outer shovel position the lift is moved to the higher stacker height position.
6	4	00	6400	25600	The shovel is pulled back with the plated loaded Shovel mechanism lifts plate up at input transfer position
6	5	00	6500	25856	Used for internal checks of plate presence. Shovel mechanism turns back in to carrousel
6	6	00	6600	26112	Lift moves to higher output transfer height position
6	7	00	6700	26368	Gate is opened and shovel mechanism turns out to transfer position
6	8	00	6800	26624	Shovel is extended at higher transfer height position. Waiting for outer shovel position signal.
6	D	00	6D00	27904	Reset sequence

Bar Code Reader Placement Status Messages (1910) (Position Bar Code Reader)

Status Code			Status		Description
Ah	Sh	EEh	Hex	Dec	
4	0	00	4000	16384	Internal Update of Registers. Normally carrousel starts positioning. Note that the carrousel positioning is an independent process and may therefore take place any time.

Place Pate Status Messages (1909) (from Lift Shovel to Stacker Level)

Status Code			Status		Description
Ah	Sh	EEh*)	Hex	Dec	
5	5	00	5500	21760	Shovel mechanism aligns to carrousel
5	6	00	5600	22016	Gate is closed if open
5	7	00	5700	22272	Internal status check
5	8	00	5800	22528	Lift travels to desired cassette level specified by level (DM5) and the pitch (DM23)
5	9	00	5900	22784	The desired level – higher stacker height position - is reached and the shovel is extended into the stacker
5	A	00	5A00	23040	The outer shovel position has been detected and the lift lower lift to lower stacker height position
5	B	00	5B00	23596	The shovel is pulled back
5	C	00	5C00	23552	The back position of the detected and all movements are completed
5	D	00	5D00	23808	Reset sequence

Pick Plate Status Messages (1908) (from Stacker Level to Lift Shovel)

Status Code			Status		Description
Ah	Sh	EEh	Hex	Dec	
7	0	00	7000	28672	Internal Update of Registers. Normally carrousel starts positioning. Note that the carrousel positioning is an independent process and may therefore take place any time.
7	1	00	7100	28928	Lift travels to desired cassette level specified by level (DM5) and the pitch (DM23). The height position is the lower stacker height position.
7	2	00	7200	29184	The turn mechanism is aligned to the stacker Gate is opened and shovel mechanism turns out to transfer position
7	3	00	7300	29440	Shovel is extended at lower stacker height position under the plate. And on reach of the outer shovel position the lift is moved to the higher stacker height position.
7	4	00	7400	29696	The shovel is pulled back with the plated loaded Shovel mechanism lifts plate up at input transfer position
7	5	00	7500	29952	Used for internal checks of plate presence. Shovel mechanism turns back in to carrousel
7	6	00	7600	30208	Lift moves to higher output transfer height position
7	7	00	7700	30464	Gate is opened and shovel mechanism turns out to transfer position
7	D	00	7D00	30720	Reset sequence

Error Messages

Status Code			Status		Description
Ah	Sh	EEh	Hex	Dec	
X	Y	01h			Handling action could not be performed in time.
X	Y	07h			Gate could not reach upper position or Gate did not reach upper position in time
X	Y	08h			Gate could not reach lower position or Gate did not reach lower position in time
X	Y	09h			Handler-Lift could not reach desired level position or does not move
X	Y	0Ah			Unauthorized user access in combination with manual rotation of carrousel
X	Y	0Bh			Stacker slot cannot be reached
X	Y	0Ch			Undefined stacker level has been requested
X	Y	0Dh			Export operation while plate is on transfer station
X	Y	0Eh			Lift could not be initialized
X	Y	0Fh			Trying to load a plate, when a plate is already on the shovel
X	Y	10h			Trying to remove or place plate with no plate on the shovel

Summary

Error	Code (hex)
Import Plate Errors	1 S EE
Export Plate Errors	2 S EE
Plate Remove Errors	3 S EE
Barcode Read Errors	4 S EE
Plate Place Errors	5 S EE
Plate Set Errors	6 S EE
Plate Get Errors	7 S EE