

LeaderSamco-SVC06 LeaderSamco-VM06

PROFIBUS SC-PB

| | | | | | | | 1 - |
|---|------|-------|------------|----------------|------|---|------|
| 1 | | | | | | | 1 - |
| | 1.1 | | SC-PB | | | | 1 - |
| | 1.2 | | | | | | 1 - |
| | 1.3 | | | | | | 1 - |
| | 1.4 | | | | | | 2 - |
| 2 | | | | | | | 3 - |
| | 2.1 | Profi | bus :. | | | | 3 - |
| | | 2.1.1 | SVC06-0015 | 0150/VM06-0022 | 0185 | | 3 - |
| | | 2.1.2 | SVC06-0185 | 0750/VM06-0220 | 0900 | ! | |
| | | 2.1.3 | SVC06-0900 | 2500/VM06-1100 | 3150 | ! | |
| | 2.2 | | (SW2) | | | | 8 - |
| | 2.3 | | | (SW1) | | | 8 - |
| | 2.4 | | | | | | 9 - |
| | 2.5 | | | | | | 10 - |
| 3 | Prof | fibus | | | | | 11 - |
| | 3.1 | Profi | bus | | | | 12 - |
| | 3.2 | Profi | bus | | | | 13 - |
| | | 3.2.1 | PPO | | | | 13 - |
| | | 3.2.2 | PKW | | | | 14 - |
| | | 3.2.3 | PZD | | | | 17 - |
| | | 3.2.4 | PKW+PZD | | | | 20 - |
| 4 | | | | | | | 20 - |
| 5 | GSI | D | | | | | 21 - |



OTP2

ON

| Profibus | DP- V0 | |
|----------|----------------------------|--------|
| | PROFIdrive Version3 | |
| | I EC-61158 61784 GB/ T2054 | 0-2006 |
| | RS- 485 | |
| | | |
| | А | |
| | MG | 5G |
| | 9.6K bps 1200m | |
| | 19. 2K bps 1200m | |
| | 45. 45K bps 1200m | |
| | 93. 75K bps 1200m | |
| | 187. 5K bps 1000m | |
| | 500K bps 400m | |
| | 1. 5M bps 200m | |
| | 3M bps 100m | |
| | 6M bps 100m | |
| | 12M bps 100m | |
| | | |
| PPO TYPE | PPO TYPE1 TYPE5 | |
| | 32 | |
| | 126 | |
| | | |
| LED | / | |
| | | |

- 10

- 20

95%**R**H

+50

65

3000m 5. 9m/s2 0. 6G

JIS C 60068-2-6

I EC60068-2-6

2

2.1 Profibus

2.1.1 SVC06-0015 0150/VM06-0022 0185

2

Profibus



| 5. | | Pr | ofib | us | | 180, | Profibu | s | | Profibus | |
|----|---|----|------|----|---|-------------|---------|----|-------------|----------|----|
| | , | 2 | MB | | | Pr of i bus | , | | | (: | 5) |
| 6. | | | 54 | 3 | 2 | 1 | | M4 | pr of i bus | | 6 |

2.1.2 SVC06-0185 0750/VM06-0220 0900



M4

| 5. | Pr of i bus | 180, | Pr of i bus | Pr of |
|-------------|-------------|-------------|-------------|-------|
| , | 2 MB | Pr of i bus | (5) | |
| 6. | 54321 | | | |
| pr of i bus | 6 | | | |

M4

2.1.3 SVC06-0900 250/VM06-1100 3150



1









Profibus



5



6

| 1. | 2 | M4 | | | 1 | | | | |
|----|---------|-----|-------------|-------------|-------------|-------|-------------|-------------|---|
| 2. | | | , | | 4 | M4 | | | |
| | | 2 | | | | | | | |
| 3. | 4 | M41 | | | (3) | | | | |
| 4. | pr of i | bus | | 3 | MB | | | | 4 |
| 5. | | | | Pr of i bus | | | | | |
| | | | 2 MB | | Pr of | i bus | | | |
| | | 5 | | | | | | | |
| 6. | | | Pr of i bus | 180, | Pr of i bus | | | Pr of i bus | |
| | | , | 2 MB | Pr of i bus | , | | | , | |
| | | | (6) | | | | | | |
| 7. | | | 6543 | 2 1 | | M4 | pr of i bus | | 7 |
| | | | | | | | | | |

2.2 (SW2)

SW2

| SV2 | LB | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | ŀВ |
|-----|----|--------|--------|------|------|------|--------|------|----|----|
| | | bi t 0 | bi t 1 | bit2 | bit3 | bit4 | bi t 5 | bit6 | NL | |

| ON | ON | 1 |
|-----|----|---|
| OFF | | 0 |

03H 00000011

OFF, OFF, OFF, OFF, OFF, ON, ON

3

| , | SV2 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|-----|----|----|-----|-----|-----|-----|-----|----|
| | | ON | ON | OFF | OFF | OFF | OFF | OFF | NL |

2.3

(SW1)



:



TA1:

| B: | 485 | B- | | В |
|----------|-------|----|----|---|
| A: | 485 | A+ | | А |
| Profibus | SW1 | | | |
| | MG_ON | | MG | |
| | SG_ON | | SG | |
| | TR_ON | | | |

4 3 1

PLC

:

:

TA1

PROFIBUS MG/SG 2.5



1.



2. 2

| | _ | |
|---|---|--|
| 4 | 2 | |
| | | |
| | | |
| | | |

3.



3 Profibus

| 1. | F4005 | = 3 | profibus dp | | |
|----|-------|-------------|-------------|---|---|
| 2. | F1101 | = 3, | | (|) |
| 3. | F1002 | = 22 | | | |
| | | F6101 = 11, | F1001=3, 4 | | |
| 4. | F4101 | | 0 600S | | |
| 5. | F4102 | | 1: | | |
| | | | 2: | | |
| 6. | F8302 | PPO | 1 5 | | |
| | 6 | profibus | | | |

3.1 Profibus

| F4005 | | 1B | 0 | | 1 |
|-------|-------------|----|-----------|-----------|---|
| | | | 1 | | |
| | | | 2 Modbus | | |
| | | | 3 Profibu | us DP | |
| F8301 | Pr of i bus | 1B | | | 1 |
| F8302 | PPO | 1B | 1 PPOI | | 1 |
| | | | 2 PPO2 | | |
| | | | 3 PPO8 | | |
| | | | 4 PPO4 | | |
| | | | 5 PPO5 | | |
| F8303 | PZD3 | 1B | =0 | | 1 |
| F8304 | PZD4 | 1B | =1 | PROFI BUS | |
| F8305 | PZD5 | 1B | =2 0 | | |
| F8306 | PZD6 | 1B | =3 | | |
| F8307 | PZD7 | 1B | =4 | 100 | |
| F8308 | PZD8 | 1B | =5 | 10 | |
| F8309 | PZD9 | 1B | =6 | 10 | |
| F8310 | PZD10 | 1B | =7 | | |
| | | | =8 | 10 | |
| | | | =9 | 1 | |

3.2 Profibus

3.2.1 PPO



PPO

| PPO1 | | |
|------|--|--|
| PPO2 | | |
| PPO8 | | |
| PPO4 | | |
| PPO5 | | |

3.2.2 PKW

| Pł | <vv< th=""><th>8byt es</th><th>PKE 2bytes II</th><th>ND 2bytes PME 4bytes PKM</th><th>V</th></vv<> | 8byt es | PKE 2bytes II | ND 2bytes PME 4bytes PKM | V |
|----|--|------------|---------------|--------------------------|---|
| | | / | | | |
| | 1 PKE | | | | |
| В | | PHO (|) | PHO | |
| | 0 | | | | |
| | 1 | | | | |
| | 2 | | | | |
| | 3 | | | | |
| | 4 | | | | |
| | 5 | MNU | HNU | | |
| | 0 | | | | |
| | 7 | | | | |
| | 0 | | | | |
| | 9 10 | | | | |
| | 10 | SPM | - 0 | SPM - 0 | |
| | 12 | GIM | - 0 | | |
| | 12 | | | | |
| | 14 | ١D | ID | ID ID | |
| | 15 | | | | |
| P | | 10 | | | |
| | PNU | / | | | |
| | 0 | - | | | |
| | 10 9 | 9 / | IND | / | |
| | 918 | | | | |
| | 919 | | | | |
| | 947 | | | | |
| | 963 | | PROFI BUS | (|) |
| | | | | 0 | |
| | 1000 | | | | |
| | 1001 | | | 100 | |
| | 1002 | | | 10 | |
| | 1003 | | | 10 | |
| | 1004 | | | | |
| | 1005 | | | | |
| | 1006 | | | 1 | |
| | 1007 | | | 2 | |
| | 1008 | | | | |
| | 1009 | | | 10 | |
| | 1010 | | VI F1 | | |
| | 1011 | | VI F2 | | |
| | 1012 | | VI F3 | | |
| | | PNU =10 99 | IND | | |

| 0 | 12 | MBaud |
|---|--------|-------|
| 1 | 6 | MBaud |
| 2 | 3 | MBaud |
| 3 | 1. 5 | MBaud |
| 4 | 500 | kBaud |
| 5 | 187. 5 | kBaud |
| 6 | 93. 75 | kBaud |
| 7 | 45. 45 | kBaud |
| 8 | 19. 2 | kBaud |
| 9 | 9. 6 | kBaud |

١D

| | ID | | | | | | | | | |
|----|--------|--|----|------|--|--|--|--|--|--|
| ١D | | | ١D | | | | | | | |
| 0 | | | 0 | | | | | | | |
| 1 | | | 1 | | | | | | | |
| 2 | | | 4 | I ND | | | | | | |
| 6 | I ND | | 7 | PVE | | | | | | |
| 7 | I ND | | | | | | | | | |
| | | | | | | | | | | |
| ١D | =7 PW€ | | | PWE | | | | | | |

2 IND BIT

| | I ND | ID | 2byt es | bi t 0 | bi t 15 | | I ND=0, | | |
|-----|------|----|---------|--------|---------|--------|---------|--------|---------|
| | / | | IND | | bi t 0 | bi t 7 | | bi t 8 | bi t 15 |
| PNU | | | | | | | | | |

| PNJ | - | Fxx F10 |
|---------------|---|---------|
| I ND byt e | - | 01 |
| PNUH ND byt e | - | F1001 |

3 PWE BIT

PWE BYTE1 BYTE0 PVNE BYTE1 BYTE0

PVNE BYTE0 BYTE1=0 PVNE

| PVE | | | | | | | |
|-------|-------|-------|-------|--|--|--|--|
| BYTE3 | BYTE2 | BYTE1 | BYTE0 | | | | |
| 0 | 0 | / | | | | | |

| PW€ | | |
|-----|-------|----|
| | | |
| 0 | | |
| 1 | | |
| 2 | | - |
| 3 | | |
| 4 | ١D | ١D |
| 11 | | |
| 18 | | - |
| 101 | | |
| 102 | | |
| 103 | | |
| 104 | | |
| 105 | | |
| 106 | LV | |
| 107 | F1002 | |
| 108 | | |
| 109 | | |
| | | |

1 <

> PKW

PPO

- 1100

| | 16 | | | | | | |
|----------|-------|-------|-------|-------|-------|-------|-------|
| PKE I NC | | | ND. | PVÆ | | | |
| BYTE1 | BYTE0 | BYTE1 | BYTE0 | BYTE3 | BYTE2 | BYTE1 | BYTE0 |
| 13 | 97 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 16 | | | | | | |

PPO

| PKE | | I ND | | PWE | | | |
|-------|-------|---------|-------|-------|-------|-------|-------|
| BYTE1 | BYTE0 | BYTE1 | BYTE0 | BYTE3 | BYTE2 | BYTE1 | BYTE0 |
| 13 | 97 | 00 | 00 | 00 | 00 | 00 | FC |
| | | PROFI E | as | | | | |

0xFC unknown

2 < 03 > PKW

PPO

16

| PKE | | I ND | | PVÆ | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| BYTE1 | BYTE0 | BYTE1 | BYTE0 | BYTE3 | BYTE2 | BYTE1 | BYTE0 |
| 13 | 96 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 16 | | | | | | |

PPO

| PKE | | I ND | | PVÆ | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| BYTE1 | BYTE0 | BYTE1 | BYTE0 | BYTE3 | BYTE2 | BYTE1 | BYTE0 |
| 13 | 96 | 00 | 00 | 00 | 00 | 00 | 03 |

3 < 03 > PKW

PPO 16

| P | КЕ | | ND. | PVE | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| BYTE1 | BYTE0 | BYTE1 | BYTE0 | BYTE3 | BYTE2 | BYTE1 | BYTE0 |
| 23 | 96 | 00 | 00 | 00 | 00 | 00 | 00 |

PPO

| | 16 | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| Pł | Ф | 11 | Ø | | P | ΛE | |
| BYTE1 | BYTE0 | BYTE1 | BYTE0 | BYTE3 | BYTE2 | BYTE1 | BYTE0 |
| 73 | 96 | 00 | 00 | 00 | 00 | 00 | 04 |
| | | | 04 | PPO | | | |

PPO 16

| | | - | | | | | | | | |
|-------|-------|-------|-------|-------|----------|-------|-------|--|--|--|
| Pl | Æ | I ND | | | I ND PWE | | | | | |
| BYTE1 | BYTE0 | BYTE1 | BYTE0 | BYTE3 | BYTE2 | BYTE1 | BYTE0 | | | |
| 70 | 0A | 06 | 00 | 00 | 00 | 13 | 88 | | | |
| | 16 | | | | | | | | | |

PKW

PPO

| | 10 | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| P | Æ | 11 | Ð | PVÆ | | | |
| BYTE1 | BYTE0 | BYTE1 | BYTE0 | BYTE3 | BYTE2 | BYTE1 | BYTE0 |
| 40 | 0A | 06 | 00 | 00 | 00 | 13 | 88 |
| | | | | | | | |

3.2.3 PZD

| 1 STW | ZS | W PZD1=2byt es | |
|--------------|-----|----------------|--------|
| STW | | | |
| Bit0 | 1 | ON | |
| | 0 | | |
| Bit1 | 1 | 1 | |
| Bit2 | 1 | 1 | |
| Bit3 | 1 | | Bit 11 |
| | 0 | | |
| Bi t 4, 5, 6 | 1 | 1 | |
| Bit7 | 0 1 | | |
| | 0 | | |
| Bit 8, 9 | 1 | 1 | |
| Bi t 10 | 1 | | |
| | 0 | | |
| Bit11 | 0 | | |
| | 1 | | |
| Bi t 12, 13, | | Ο | |
| 14, 15 | | 0 | |

| ZSW | | | |
|---------|----|---------|--------|
| Bit0 | 1 | | |
| | 0 | | |
| Bit1 | 1 | | |
| | 0 | | |
| Bit2 | 1 | | Bit 3 |
| | 0 | | |
| Bit3 | 1 | | |
| | 0 | | |
| Bit9 | 1 | | |
| | 0 | | |
| Bit 10 | 1 | | |
| | 0 | | |
| Bit 14 | 0 | | Bit 11 |
| | 1 | | |
| Bi t 15 | 1 | | |
| | 0 | | |
| | | 0 | |
| 2 HSW | ΗW | PZD2=2b | pyt es |

PZD2=2byt es

| PZD2 | | |
|--------|----------|-----|
| HRM/ | Objet op | 100 |
| ΓΒνν | Zbytes | 100 |
| 11.14/ | Objet op | 100 |
| | 2byt es | 100 |

100

1 <PP01

50Hz> PZD1 PZD2

16 + STW PZD1 HSW PZD2 BYTE1 BYTE0 BYTE1 BYTE0 04 7F 13 88 16

+

| ZSW I | PZD1 | HWI | PZD2 | |
|-------|-------|-------------|------|--|
| BYTE1 | BYTE0 | BYTE1 BYTE0 | | |
| 06 | 07 | 13 | 88 | |

| 2 PZD8 I | | | | |
|------------|-------|-----|-----------|--|
| PZD3 PZD10 | | | | |
| PZD8 | F8303 | =0 | | |
| PZD4 | F8304 | =1 | PROFI BLS | |
| PZD5 | F8305 | =2 | 0 | |
| PZD6 | F8306 | =3 | | |
| PZD7 | F8307 | =4 | 100 | |
| PZD8 | F8308 | =5 | 10 | |
| PZD9 | F8309 | =6 | 10 | |
| PZD10 | F8310 | =7 | | |
| | | =8 | 10 | |
| | | =9 | 1 | |
| | | =10 | 2 | |
| | | =11 | | |
| | | =12 | 10 | |
| | | =13 | VI F1 | |
| | | =14 | VI F2 | |
| | | =15 | VI F3 | |

1 <PP05

50Hz ,F8304=2 F8305=7 > PZD

| | | + | +PZD3 F | ZD10 | | 16 | | |
|------|-------|-------|---------|-------|-------|-------|------|------------|
| STW | PZD1 | HBWI | PZD2 | PZ | ľD3 | PZ | D4 | PZD5 PZD10 |
| BYTE | BYTE0 | BYTE1 | BYTE0 | BYTE1 | BYTE0 | BYTE1 | BYTE | |
| 1 | | | | | | | 0 | 00 |
| 04 | 7F | 13 | 88 | 00 | 00 | 00 | 00 | |
| | | + | | 16 | | | | |
| STW | PZD1 | HBWI | PZD2 | PZ | ľD3 | PZ | D4 | PZD5 PZD10 |
| BYTE | BYTE0 | BYTE1 | BYTE0 | BYTE1 | BYTE0 | BYTE1 | BYTE | |
| 1 | | | | | | | 0 | 00 |
| 06 | 07 | 00 | 00 | 00 | 00 | 00 | 1A | |

3.2.4 PKW+PZD

| | PKE | IND | PWE H | PWELL | PZDI | PZD2 | PZD3PZD10 |
|-------|------|-----|-------|-------|------|------|-----------|
| 40.96 | 0 | 0 | 0 | 0 | 47E | 0 | 0 |
| 40.96 | 0 | 0 | 0 | 0 | 47F | 1000 | 0 |
| 40.96 | 0 | 0 | 0 | 0 | C7F | 1000 | 0 |
| 40.96 | 0 | 0 | 0 | 0 | 476 | 1000 | 0 |
| 40.96 | 0 | 0 | 0 | 0 | 4FE | 1000 | 0 |
| 40.96 | 1396 | 0 | 0 | 0 | 476 | 1000 | 0 |

4

LED

| LD1 | | | | |
|-----|-----|-----|----------------|----|
| | | ICD | | |
| | | LCD | | |
| | | | | |
| | | | PPO | |
| | | | SC-PB | |
| LD2 | | | OTP2 | |
| PLC | DP | LED | 1. PLC | |
| | PLC | | SC-PB DP (MG/5 | G) |
| LED | | | | |
| | | | 2 | |
| | | | 2. | |
| | | | | |

5 GSD

| ;===================================== | SC-PB Sanken LD |
|---|--------------------------------|
| ; MLFB : | |
| ; Auto Baud supp, | 12MBaud |
| ; | |
| ; File : SankenLD. | GSD |
| ;====================================== | |
| #Profibus_DP | |
| ; Unit-Definition-Lis | st: |
| GSD_Revision | = 1 |
| Vendor_Name="Sar | iken LD" |
| Model_Name | = "Sanken L.D. SVC06 Profibus" |
| Revision | = "Rev 1.0" |
| Ident_Number | = 0x8 |
| Protocol_Ident | = 0 |
| Station_Type | = 0 |
| FMS_supp | = 1 |
| Hardware_Release | = "1.00" |
| Software_Release | = "1.00" |
| 9.6_supp | = 1 |
| 19.2_supp | = 1 |
| 93.75_supp | = 1 |
| 187.5_supp | = 1 |
| 500_supp | = 1 |
| 1.5M_supp | = 1 |
| 3M_supp | = 1 |
| 6M_supp | = 1 |
| 12M_supp | = 1 |
| MaxTsdr_9.6 | = 60 |
| MaxTsdr_19.2 | = 60 |
| MaxTsdr_93.75 | = 60 |
| MaxTsdr_187.5 | = 60 |
| MaxTsdr_500 | = 100 |
| MaxTsdr_1.5M | = 150 |
| MaxTsdr_3M | = 250 |
| MaxTsdr_6M | = 450 |
| MaxTsdr_12M | = 800 |
| Redundancy | = 1 |
| Repeater_Ctrl_Sig | = 2 |
| ; | |
| ; Slave-Specification | 1: |
| 24V_Pins | = 2 |
| | |

Implementation_Type = "SPC3" Bitmap_Device = "DP_NORM" Bitmap_Diag = "bmpdia" Bitmap_SF = "bmpsf" Freeze_Mode_supp = 0Sync_Mode_supp = 0 = 1 Auto_Baud_supp Set_Slave_Add_supp = 0Min_Slave_Intervall = 1 ; Modular_Station = 1 Max_Module = 1 Max_Input_Len = 122 Max_Output_Len = 122 Max_Data_Len = 244 ; ; Module-Definitions: ; Modul_Offset = 255 Max_User_Prm_Data_Len = 5 = 0 Fail_Safe Slave_Family = 0 Max_Diag_Data_Len = 16 OrderNumber="SVC06 PROFIBUS" Module = "PPO Type 1" 0xF3, 0xF1; EndModule; Module = "PPO Type 2" 0xF3, 0xF5; EndModule; Module = "PPO Type 3" 0xF1; EndModule; Module = "PPO Type 4" 0xF5; 5;

;

: www.sankenld.com

2021 09

VER-2.24 TEXC-SC-PB-004B