

# STANDARD SOFTWARE PACKAGE 2 - PROVIT, STANDARD SOFTWARE PACKAGE 3 - PID LOOPS

PLC SYSTEMS  
PLC PROGRAMMING

# A7



## STANDARD SOFTWARE FOR PROVIT TERMINALS

The standard software supports PROVIT 600, PROVIT 700 terminals and the operator panel BRRETEL45.

### Driver Function Block

A driver function block is required for each terminal:

PRDB	FBK	PROVIT DRIVER B (PIFA,PIF1,PIF3)
PRDC	FBK	PROVIT DRIVER C (CP70,PP60,NTCP6#)
PRDF	FBK	PROVIT DRIVER F (PP60)
PVTC	TAB	KEY DECODER TABLE FOR BRRETEL45 PANEL

These driver function blocks initialize the interface, define the data protocol between PLC and terminal, receive key codes and send the issued characters to the terminal.

The driver function block required depends on the interface module used:

Module	PLC System / Rack	Driver FBK
MCPIFA-2	MINICONTROL	PRDB
MDPIF1-0, ECPDF3-0	MULTI, MIDI, M264	PRDB
ECPP60-01	MULTI, MIDI	PRDC
NTCP63-0, NTCP64-0, PSCP65-0	M264	PRDC
ECCP70-01	MULTI, MIDI	PRDC
ECPP60-01	MULTI, MIDI	PRDF

### Other Function Blocks

The PRVT function block is used for the communication between the parallel processor and CPU if the PROVIT terminal is to be operated by a parallel processor.

A screen is selected with the PRVS function block and displayed with the PRVR function block.

PRVR	FBK	PROVIT SCREEN DRIVER
PRVS	FBK	PROVIT SCREEN SELECTION
PRVT	FBK	PROVIT TRANSFER CPU - PPU

### Configuration Data Table

Screen masks, input and display fields and key functions are defined with the configuration table PRTD, PRTI, PRTK, PRTM and PRTT:

PVTD	TAB	OUTPUT VALUE DATA TABLE
PVTI	TAB	INPUT VALUE DATA TABLE
PVTK	TAB	KEY DEFINITION DATA TABLE
PVTM	TAB	DATA TABLE FOR SCREEN MASKS
PVTT	TAB	MESSAGE DATA TABLE

## STANDARD SOFTWARE PACKAGE 3

Standard software package 3 contains package 1 and standard software for PID loop control applications.

### ORDER DATA

Standard software package 3, standard utility programs (comparators, counters, timers, system functions, number conversions, analog I/O modules operations, arithmetic programs etc.), Standard software for PID loop control applications.

3.5"-Diskette(s)

German	SWSPSPID01-0
English	SWPLCPID01-0

Standard software package 3 contains the following components in addition to package 1:

PID Loop Controller		
LAPP_P60	PRG	PID ALGORITHMS FOR PP60 (32 CONTROLLERS)
LCCL	FBK	PID LOOP CONFIGURATION FOR CP/PLC
LCPC	FBK	PID LOOP CONFIGURATION FOR PP/PCS
LCPL	FBK	PID LOOP CONFIGURATION FOR PP/PLC
LECL	FBK	PID LOOP EXT I/O DEFINITION FOR CP/PLC
LEPC	FBK	PID LOOP EXT I/O DEFINITION FOR PP/PCS
LEPL	FBK	PID LOOP EXT I/O DEFINITION FOR PP/PLC (PP60)
LICL	FBK	PID LOOP I/O DEFINITION FOR CP/PLC
LIPC	FBK	PID LOOP I/O DEFINITION FOR PP/PCS
LIPL	FBK	PID LOOP I/O DEFINITION FOR PP/PLC (PP60)
LPCL	FBK	PID LOOP PARAMETER DEFINITION FOR CP/PLC
LPPL	FBK	PID LOOP PARAMETER DEFINITION FOR PP/PLC (PP60)
LSCP	FBK	PID LOOP SELECTOR FOR CP
LSPP	FBK	PID LOOP SELECTOR FOR PP (PP60)
LPAD	TAB	RACK ASSIGNMENT FOR LOOP PP
LPAR	TAB	PARAMETER DATA TABLE FOR PID LOOP

A detailed description of the PID loop controller software can be found in Section A9 "PID Loop Controller".