PC-E984-685

Modicon 984-685 Programmable Controller

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Schneider Electric PC-E984-685 is a Modicon 984 slot-mounted programmable controller. It executes the installed ladder-logic application and coordinates local and remote 800-series I/O through the configured controller system.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Schneider Electric article.

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PC-E984-685

Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

1. Confirm the complete PC-E984-685 marking, controller revision and housing position.
2. Place the controlled process and all driven equipment in the approved maintenance state.
3. Back up the complete Modsoft program, configuration, node address and register data.
4. Isolate controller and field power according to the installed wiring drawings.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	PC-E984-685
Host / carrier	Modicon 984 programmable controller system
Primary system role	Executes the installed Modicon 984 ladder-logic application
Acceptance boundary	Complete diagnostics, interlock tests and a controlled application sequence before automatic operation.
Source record	984-680/685 and 984-780/785 System Planning and Installation Guide

WORK AUTHORIZATION RECORD

Work order: _____ Drawing / revision: _____
Checked by: _____ Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Install PC-E984-685 only in the documented Modicon 984 programmable controller system arrangement and record the exact connection and configuration before removal. Restore the approved settings, then verify diagnostics and functional response before release.

1. Record local 800-series I/O interfaces, Modbus Plus cabling and any S908 remote-I/O path.
2. Inspect the battery, housing connectors, keying and protective grounding before installation.
3. Restore the approved project and verify every configured I/O drop and communication node.
4. Complete diagnostics, interlock tests and a controlled application sequence before automatic operation.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm the complete PC-E984-685 marking, installed host, hardware execution, terminals or connectors, wiring, grounding, configuration, accessories and controlled commissioning results.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	PC-E984-685
Host match	Modicon 984 programmable controller system
Connection proof	Inspect the battery, housing connectors, keying and protective grounding before installation.
Configuration proof	Restore the approved project and verify every configured I/O drop and communication node.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Complete diagnostics, interlock tests and a controlled application sequence before automatic operation.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

Legacy Modicon machine control

Runs documented 984 logic for an existing machine or process unit.

800-series I/O coordination

Maintains the approved local and remote I/O map connected to the controller.

Modbus Plus control networks

Exchanges controller data with configured peer stations and engineering tools.

984 system migration verification

Provides the as-found controller reference needed for a controlled modernization study.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
140CPU43412	Modicon Quantum CPU	View 140CPU43412 page
140CPU67160	Modicon Quantum CPU	View 140CPU67160 page
140CPU43412U	Modicon Quantum CPU	View 140CPU43412U page
TSXP574634M	Premium processor	View TSXP574634M page
TSXP57302M	Premium processor	View TSXP57302M page
BMXP3420302	Modicon processor	View BMXP3420302 page
BMXDDO1602	digital output module	View BMXDDO1602 page
BMXDDI3202K	digital input module	View BMXDDI3202K page

MANUFACTURER SOURCE RECORD

984-680/685 and 984-780/785 System Planning and Installation Guide
Schneider Electric / Modicon GM-0984-401

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