

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB SAPI20600R0001-PM554-TP

Installation and Expansion Guide

ABB AC500-eCo PLC Processor Module

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB SAPI20600R0001-PM554-TP
Reference number	ISAPI20600R0001
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/Isapi20600r0001-pm554-tp>

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PLC signal and execution path

ABB ISAPI20600R0001 PM554-TP is a 24 V DC AC500-eCo programmable logic controller processor module with 128 kB Flash EPROM. It executes IEC 61131-3 control programs, reads eight onboard 24 V DC digital inputs and drives six onboard 24 V DC transistor outputs rated up to 0.5 A each.

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| 01 | Executes cyclic, time-controlled and multitasking PLC programs. |
| 02 | Reads eight onboard 24 V DC digital input signals. |
| 03 | Commands six onboard 24 V DC transistor digital outputs, maximum 0.5 A per output. |
| 04 | COM1 is non-isolated RS-485 through a 9-pin D-sub female connector, configurable from 1.2 to 187.5 kbit/s. |
| 05 | COM1 supports programming, Modbus master/slave, serial ASCII and CS31 master. |

Local I/O and communication context

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| 01 | The requested SAPI20600R0001 string omits the leading 1; the verified ABB order code is 1SAPI20600R0001. |
| 02 | This PM554-TP order code has no integrated Ethernet; PM554-TP-ETH is the separate ISAPI20600R0071 model. |
| 03 | ABB's ordering notice states that the onboard-I/O terminal blocks are ordered separately. |

Installation readiness checklist

01	Use only SELV or PELV power sources with safe galvanic separation for 24 V DC supply, communications, I/O and connected devices.
02	Never exceed or fall below ABB's allowed process- and supply-voltage tolerances.
03	The non-isolated COMI common-mode range is typically -8 V to +12 V; signals outside this range can damage the interface.
04	Use the correct cable type, conductor size and temperature classification; improper connections can overheat terminals and destroy PLC modules.
05	Observe the lower +40 °C maximum and 50% output-load reduction for vertical mounting.
06	Use this device only as industrial control equipment; ABB does not specify it for domestic applications.

Identity and release controls

Official Order Code	1SAPI20600R0001
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Official ABB sources

PM554-TP official ABB product page	https://www.abb.com/global/en/products/1sap120600r0001
PM554, PM556, PM564, PM566 Processor Module Data Sheet	https://library.e.abb.com/public/a41f05008c5a4557a1a6e6b232bacb1d/PM55x_PM56x_Data_Sheet%2C%201%2C%20en_US.pdf
AC500 Hardware Manual – onboard I/O in processor module PM55x	https://library.e.abb.com/public/23f045f2b0f246798983cf6e0847ec77/3ADR010121%2C%2019%2C%20%20en_US%2C%20CAA-Merger-2.pdf
Product News AC500-eCo CPUs – Change in ordering procedure	https://library.e.abb.com/public/e5db23f0deee3ae1c1257cba003e6c13/Product%20News%20ACM34_2013%20AC500-eCo%20CPUs.pdf
AC500-eCo official ABB overview	https://new.abb.com/plc/programmable-logic-controllers-plcs/ac500-eco