

APTER POWER INSTALLATION & VERIFICATION REFERENCE

70085-1010-412

A separate model-specific field checklist

Use this reference to verify the complete AI-Tek marking, configuration-controlled fields, matched components, mechanical fit, signal path, and approval evidence before installation or substitution.

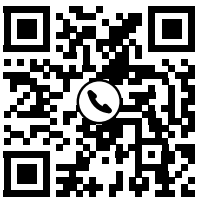
Manufacturer	AI-Tek Instruments
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Passive sensing. Long-reach threaded installation.

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SCAN FOR PRODUCT & QUOTE
70085-1010-412

1. Pre-Installation Verification

Step	Check	Required evidence
1	Identity	Match every printed character of 70085-1010-412 to the physical nameplate and quotation.
2	Code control	AI-Tek output is specified at a 0.030 in air gap and 500 IPS target surface speed. Actual output depends on surface speed, air gap, target geometry, and connected load impedance.
3	Mechanical	Official selection data lists a 6 in thread length and 7.25 in sensor length. Exact net weight, shipping mass, and packed-carton dimensions are not published in the reviewed guide.
4	System matching	Ferrous target geometry sized for the required output
5	Signal path	The sensor generates an alternating electrical signal as ferrous gear teeth or another suitable target pass the pole piece. Signal frequency follows target speed, while amplitude varies with surface speed, air gap, target size, and load impedance. It supports rotational-speed, frequency, and event sensing without an external sensor power supply.
6	Commissioning	Record geometry, gap, scaling, functional test, technician, document revision, and date.

Product-Specific Precautions

- Set air gap with the machine stopped and prevent contact with the rotating target
- Verify target material, tooth geometry, minimum speed, and load impedance
- Do not treat the 13.4 V value as constant outside the published test condition
- Confirm insertion depth so the long threaded body cannot contact moving parts
- Route and shield the two signal wires according to the receiving-instrument instructions

2. Commissioning Record

Record item	Site entry
Physical model / suffix	
Serial / revision	
MOD or legacy drawing	
Machine and measurement point	
Matched cable / sensor / transmitter	
Mounting, gap, and clearance	
Signal or loop scaling	
Approval drawing / barrier	
Functional test / technician / date	

Source Basis

AI-Tek Instruments Passive Sensor Selection Guide, part number 70085-1010-412

Important Notice

This Apter Power checklist is not a AI-Tek installation instruction. The current manufacturer documentation, physical nameplate, MOD or legacy drawing, machine drawing, and applicable safety rules control all work.

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