



#### Instruction Manual

Thank you for purchasing this new product. Please read through this Instruction Manual thoroughly to operate this product correctly and keep it near the product so that you may refer to it whenever necessary. If you transfer the product to another customer, be sure to attach this Instruction Manual and the warranty information to the product.

Sensor Unit (for the DIN 3 Meter) Product Name

409-A005 Product Code

Application Various Sensor Inputs

Communication Unit with DIN 3 Meter

DC10V~16V Body Farth Vehicle Applicable Vehicle

+0~+60°C Operating Temperature

Before Instillation and Use

This Instruction Manual is intended to be used for the A' PEXi DIN 3 Meter. Please also refer to the Instruction Manual for the DIN 3  $\,$ Meter Main Unit that supports the installation of this product.

#### Version Information

No.	Date of Issue	Instruction Manual Ver.	#	Notes
1	June 1, '12	7207-0370-00	1	
2	July 6. '12	7207-0370-01	2	
3	Feb 19, '15	7207-0370-02	3	

#### Contact

Apex Co.,Ltd.
9-1 Matsugi Hachioji-City,Tokyo,192-0362 Japan.
Tel:+81-42-678-7130 Fax:+81-42-678-7131

Apex Integration Inc. 1449 West Orenge Grove Avenue, Suite#A,Orange, CA 92868 USA

Tel:+1-714-685-5700 Fax:+1-714-685-5701

©Apex Co., Ltd. Printed in Japan • It is strictly prohibited to reproduce or copy any portion of this manual. This manual may not be

- used for any other purposes than personal use without expressed written consent of A' PEXi.

   We are not responsible for any losses resulting from data memory loss caused by faulty installation, accidents, or any other factors.
- A' PEXi reserves the right to improve and change optional parts, part numbers, prices, and configurations without prior notice. P. 1 ° P. 3

## Parts List

This manual contains the parts list of each individual product for the DIN 3 Meter. Be sure to check the contents of the product BEFORE installation. If any parts are missing or damaged, please repack the unit and all of its contents and return to your dealer of purchase with proof of purchase

Sensor Unit Product Code 409-A005















Instruction Manual (English) ··· 1

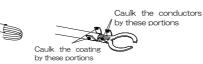
#### ■Connecting the Wire Terminals

1) Peel off the coating 2 Fold the wires of the wires about





#### Make the caulking thrust into the wires



## Safety Precautions

Please read "Safety Precautions" carefully to operate the product with safety Keep the instruction manual in hand and refer to it whenever needed. The instruction manual describes the items that you must observe prior to installation and use of this product to avoid possible problems and damage which would be caused by improper installation and use. The meanings of pictorial indications by caution marks (signal words) are shown below. Please understand their contents correctly before starting to read the text of this instruction manual

#### **■ GLOSSARY**

## Display WARNING

Potential hazard that can esult in death or serious njury of the operator or a hird person if the product wrongly operated in regard of this indication.

# CAUTION

#### Potential hazard that can result in slight injury or medium damage to the operator, third person, or ehicle if the instruction anual is not followed

#### **WARNING**

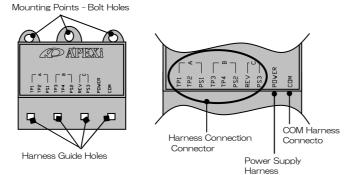
- Discontinue use of this product immediately if any unusual odor or smoke comes from **the unit.** Failure to do so may result in electrical shorts and potential engine fire. Please consult with your distributor or nearest local installation shop.
- Always remove the negative terminal (-) of the battery before attempting installation. Failure to do so may result in electrical fires and engine fires resulting in damaged products. After installation with the negative battery terminals disconnected, recorded ECU memory, idling learning system, anti-theft systems, vehicle radio security systems, etc. may be reset. In this case please refer your vehicle's factory owner's manual for further information
- Always wire this unit up according to the instruction manual. Failure to do so may result in electrical fire, improper unit/vehicle operation,

  • Mount this product securely. Do not install nor mount the product in an unstable location that
- ay interfere with driving which can result in an accident.
- Never operate this unit while driving. This may interfere with driving operations which can
- Do not and install and use this product and its accessories for any other purpose than the one specified by A' PEXI in this manual, In this case, we shall disclaim all responsibility for any damage or loss to the customer or third persons from improper usage of this product.

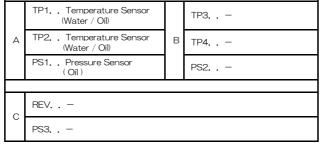
#### **A** CAUTION

- This product should only be installed by a trained professional installer. Installation requires
- Never disassemble or tamper with this unit. Failure to do so may lead to electrical short circuits nd electrical fires resulting in product and engine damage • Do not drop this product or expose it to excessive shock. Failure to do so may result in
- oduct malfunction and engine damage.vehicle. Do not operate this unit in excessively hot or high-temperature vehicle interiors that are not air-conditioned during hot weather seasons, Failure to do so may result in unit alfunction, thereby resulting in damage to the product and the vehicle.
- Keep this unit away from direct water and sunlight. Failure to do so may result in electrical
- Be sure to perform installation of unit parts when engine bay area is at cool temperatures. Failure to do so may result in burning oneself

## Part Descriptions



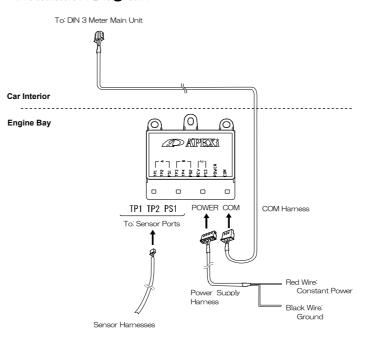
Harness Connection Connector Guide



In the case of using 409-A003 Meter, then, the [B] and [C] couplers will not be used. Even if connected the [B] and [C] couplers, the contents will not be displayed.

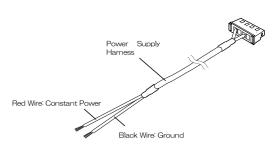
## Installation Procedures

#### Installation Diagram



#### Power Supply Harness Connection

- The Sensor Unit requires the connection of Constant Power and
- Mount the Sensor Unit in a location that does not interfere with the wiring harness connections for both the sensor and power supply
- Connecting the wires can be done by using the included wire terminals and splices or by using professional soldering equipment. Be sure that each wire has a secure connection.



\* It is also possible to connect the Power Supply Wiring Harness directly to the Battery.

The Sensor Unit Power ON / OFF switch is controlled through the COM Harness connected to the DIN 3 Meter.

[Memo.] Standby Power Off Requirement · · · 5 mA or less

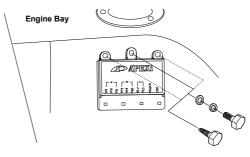
#### CAUTION —

- Always remove paint and oil from any Grounding location to prevent faulty
- Do not use electro-taps during installation. Electro-taps may come loose after time causing faulty connections. This may lead to product failure and vehicle damage.
- Be sure to route the wiring harness away from moving parts and HOT areas. If in a
- HOT area, be sure to wrap the harness with some type of insulation.

#### Sensor Unit Installation

P. 2 P. 4

- Be sure to mount in a location where wiring harnesses can reach sensor unit, and use the included mounting hardware and zip ties to securely fasten to mounting locatation
- Be sure to mount the sensor unit as shown in the drawing below with the sensor harness connections faced downward.



### **CAUTION**

- Be sure to mount the meter away from electrical interference or noise (ex Ignition Systems) to prevent malfunction.
- Be sure to mount the sensor unit away from areas that may be exposed to
- Be sure to keep the sensor unit away from constant HOT areas, please relocate when necessary.
- \* Furthermore, for additional installation procedures. please reference the Instruction Manual of the DIN 3 Meter.

