# 81MPP06-02 Differential Pressure Sensor Technical File

SKU1：Y1L30081MPP0602



# 81MPP06-02 Differential Pressure Sensor Technical File

## Content

1. 81MPP06-02 Differential Pressure Sensor Introduction ..... 2
1.1. 81MPP06-02 Differential Pressure Sensor Basic Information ..... 2
1.2. 81MPP06-02 Differential Pressure Sensor Common Part Number ..... 2
1.3. 81MPP06-02 Differential Pressure Sensor Application Information ..... 2
1.4. 81MPP06-02 Differential Pressure Sensor Parameter ..... 2
1.5.81MPP06-02 Differential Pressure Sensor Quality Control ..... 2
1.6.81MPP06-02 Differential Pressure Sensor Customized Service ..... 2
1.7.81MPP06-02 Differential Pressure Sensor Packing List and Package Size ..... 3
1.8.81MPP06-02 Differential Pressure Sensor Warranty Instructions ..... 3
1.9.81MPP06-02 Differential Pressure Sensor Manufacturer ..... 4
2.81MPP06-02 Differential Pressure Sensor Technical Support ..... 4
2.1.81MPP06-02 Differential Pressure Sensor Cleaning ..... 4
2.2. Causes of 81MPP06-02 Differential Pressure Sensor Being Damaged ..... 4
2.3.81MPP06-02 Differential Pressure Sensor Technical Support Obtaining Methods ..... 5
3.81MPP06-02 Differential Pressure Sensor Purchase and Delivery ..... 5
3.1.81MPP06-02 Differential Pressure Sensor Purchase Payment Term ..... 5
3.2.81MPP06-02 Differential Pressure Sensor Main Sales Markets ..... 5
3.3.81MPP06-02 Differential Pressure Sensor Declaration Requirements ..... 5
3.4.81MPP06-02 Differential Pressure Sensor Shipping Ways ..... 5
3.5.81MPP06-02 Differential Pressure Sensor Lead Time ..... 5
3.6.81MPP06-02 Differential Pressure Sensor Logistics Time for Destination Out of China's Areas ..... 5
3.7.81MPP06-02 Differential Pressure Sensor Packing ..... 6
4.81MPP06-02 Differential Pressure Sensor Storage Standard ..... 7
5.Company Information ..... 7
5.1. Company Introduction ..... 8
5.2. Salesmen's Contact Information ..... 8
6.Copyright Statement ..... 9

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# 81MPP06-02 Differential Pressure Sensor Technical File

## 1. 81MPP06-02 Differential Pressure Sensor Introduction

### 1.1. 81MPP06-02 Differential Pressure Sensor Basic Information

| Title | 81MPP06-02 Differential Pressure Sensor | Quality |
|---|---|---|
| SKU | Y1L30081MPP0602 | Original New |

### 1.2. 81MPP06-02 Differential Pressure Sensor Common Part Number

| Differential Pressure Sensor Part Number |
|---|
| 81MPP06-02 |

### 1.3. 81MPP06-02 Differential Pressure Sensor Application Information

**(1) Differential Pressure Sensor Application Information**

| Part Number | OEM |
|---|---|
| 81MPP06-02 | 227701177R |

**(2) Differential Pressure Sensor Common Writing**

81MPP06-02

### 1.4. 81MPP06-02 Differential Pressure Sensor Parameter

**Differential Pressure Sensor Size:** /
**Differential Pressure Sensor Net Weight:** /
**Differential Pressure Sensor Package Size :** /
**Differential Pressure Sensor Gross Weight:** /
**Differential Pressure Sensor Quality:** Original New
**Differential Pressure Sensor MOQ:** 1 Pieces

### 1.5.81MPP06-02 Differential Pressure Sensor Quality Control

**(1) Differential Pressure Sensor Testing**

All differential pressure sensor parts are tested for electrical characteristics, accuracy, high temperature, low temperature, pressure resistance, leakage, durability, and various working conditions.

**(2) Differential Pressure Sensor Inspection**

The differential pressure sensor factory inspection is tested three times: full inspection, random inspection, and batch inspection. The differential pressure sensor factory inspection will use different brands of test benches to test the same differential pressure sensor for a total of no less than three times. The differential pressure sensor installation and testing environment is completed in a dust-free workshop.

**(3) Differential Pressure Sensor Assembling**

During the assembly of the differential pressure sensor pin and housing, our company strictly adheres to the standard technical specifications for the clearance between the differential pressure sensor pin and housing to ensure that each differential pressure sensor meets both factory and usage standards.

### 1.6.81MPP06-02 Differential Pressure Sensor Customized Service

**(1) Differential Pressure Sensor Customized Service Coverage:**

Meet the customized needs of OEM manufacturers for differential pressure sensor housings with engraving (logo, model, date, serial number), differential pressure sensors without engraving, differential pressure sensor barrels, and differential pressure sensor packaging boxes.

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**(2) Differential Pressure Sensor Customized Service Requirements:**

Customized differential pressure sensor pins, with or without engraving, shall be sold in no less than 100 pieces.

The sales of customized differential pressure sensor products shall not be less than 2000-3000 pieces.

The packaging of customized differential pressure sensors shall not be less than 1000 pieces.

Customized products involve the need of specify logo, the OEM manufacturer needs to provide trademark authorization and the sample of logo image file.

⚠ Once the customized differential pressure sensor is sold, it cannot be returned or exchanged if there are no quality problems.

## 1.7.81MPP06-02 Differential Pressure Sensor Packing List and Package Size

**(1) Differential Pressure Sensor Spare Parts List**

| No. | 1 | 2 | 3 |
|---|---|---|---|
| Image |  |  | / |
| Name | Differential Pressure Sensor | Differential Pressure Sensor Packaging Box | / |
| Description | Differential pressure sensor part number: 81MPP06-02 | Placement of differential pressure sensor and differential pressure sensor accessories | / |

⚠ Minors are prohibited from using the differential pressure sensor assembly, and bubble bag to avoid personal injury.

⚠ The packaging box is made of non-degradable material. Please dispose of i properly after use.

## 1.8.81MPP06-02 Differential Pressure Sensor Warranty Instructions

**(1) Product Warranty Conditions and Instructions**

It is necessary to provide pictures, videos, or test reports detected by the differential pressure sensor inspection equipment when the differential pressure sensor is abnormal during use as evidence to feed back to the salesman.

Abnormal conditions are properly explained such as: 1.Smoke, 2. Engine shake, 3. Difficulty starting the engine, 4. Engine noise, 5. Fuel leakage etc.

**(2) Differential Pressure Sensor Warranty Coverage**

Within 15 days after customer receives the 81MPP06-02 differential pressure sensor, if there is a performance failure and the product has no appearance damage, customer can choose to replace it or repair it;

If the 81MPP06-02 differential pressure sensor has performance problems during the warranty period (3 months), and it is confirmed that it is product's problems after testing, you can contact our salesmen to replace the same model or a reworked product with the same performance for free;

If the product is confirmed to be without fault, it will be returned as is.

**(3) Differential Pressure Sensor Out of Warranty Coverage**

① The warranty period has expired and is not covered by the warranty.

② Differential pressure sensor failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and abnormal environment.

③ Differential pressure sensor damage caused by human factors (throwing, strong magnetic field


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magnetization, arson).

④ Differential pressure sensor damage damage caused by non-differential pressure sensor damage design, technology, manufacturing, quality, and other issues.

⑤ Differential pressure sensor failure caused by system pressure exceeding the approved system pressure.

⑥ Impurities (water, lead, aluminum powder, iron powder, sulfide) in the system fuel exceed the standard requirements and cause differential pressure sensor failure.

⑦ Differential pressure sensor failure caused by not installing according to the tightening torque specified in the vehicle engine maintenance manual (tightening torque is too large or too small).

⑧ Differential pressure sensor failure caused by failure to follow the installation angle specified in the vehicle engine maintenance manual.

⑨ Differential pressure sensor failure caused by failure to comply with the cleaning requirements specified in the vehicle engine maintenance manual.

⑩ Differential pressure sensor failure caused by failure to replace wearing parts in accordance with the requirements specified in the vehicle engine maintenance manual.

### 1.9.81MPP06-02 Differential Pressure Sensor Manufacturer

**Differential Pressure Sensor Manufacturer:** Shenzhen Shumatt Technology Co., Ltd

## 2.81MPP06-02 Differential Pressure Sensor Technical Support

### 2.1.81MPP06-02 Differential Pressure Sensor Cleaning

(1) Before installation, the differential pressure sensor should be cleaned in an ultrasonic cleaner for 3-5 minutes to remove stains, dust, powder, rust-preventive oil oxides, paraffin bases, naphthenic groups, intermediate groups, salts, lead naphthenate, zinc naphthenate, sodium petroleum sulfonate, barium petroleum sulfonate, calcium petroleum sulfonate, tallow diamine trioleate, and rosin amine from its surface.

(2) Use compressed air to remove the cleaning fluid adhering to the surface of the differential pressure sensor after cleaning, ensuring it meets the usage standards.

### 2.2. Causes of 81MPP06-02 Differential Pressure Sensor Being Damaged

(1) Differential pressure sensor malfunction caused by impurities in the fuel (water, lead, aluminum powder, iron powder, sulfides) exceeding standard requirements.

(2) Differential pressure sensors experience normal wear due to prolonged operation at high temperatures.

(3) Wear on the differential pressure sensor needle caused blockage of the oil orifice, resulting in insufficient fuel injection and malfunction of the fuel pump.

⚠ Wear and tear on the differential pressure sensor nozzle can cause the fuel pump to pump more fuel, resulting in black smoke from the vehicle and, in severe cases, malfunction of the fuel pump.

⚠ If the differential pressure sensor needle cannot move smoothly and becomes stuck, it may cause serious damage to the differential pressure sensor.

⚠ The differential pressure sensor spring rusted and broke, causing the vehicle to emit black smoke.

⚠ Wear on the differential pressure sensor spring adjusting shim reduces the sensor's opening pressure, causing the oil pump to pump more fuel, resulting in black smoke from the vehicle and, in severe cases, malfunctioning of the oil pump.

⚠ Wear on the differential pressure sensor needle valve lift adjustment shim causes the needle valve stroke to increase, leading to increased oil pump flow and resulting in black smoke from the vehicle. In severe cases, this can cause the oil pump to malfunction.

⚠ Wear on the differential pressure sensor needle valve lift adjustment shim causes the needle valve stroke to increase, leading to increased oil pump flow and resulting in black smoke from the vehicle. In severe cases, this can cause the oil pump to malfunction.

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### 2.3.81MPP06-02 Differential Pressure Sensor Technical Support Obtaining Methods

(1) Differential Pressure Sensor Technical File, visit http://shumatt.com to get the technical file.

(2) Differential Pressure Sensor Technical Videos

**Facebook：** Follow https://www.facebook.com/hison.lito get technical support videos, and stay tuned for more information.

**YouTube：** https://www.youtube.com/channel/UCByvYBx7VjV_mAfxh_Hu-aw to get the technical videos，constantly follow can get more information.

**Shumatt:** Visit http://shumatt.com to get the technical videos.

(3) Differential Pressure Sensor Information Query Software

TruckBook Parts EPC APP，Android/Apple App Store download and install，visit http://shumatt.com to get the download and installation tutorial

(4) Search the Differential Pressure Sensor Test Data through TruckBook Parts EPC APP.

## 3.81MPP06-02 Differential Pressure Sensor Purchase and Delivery

### 3.1.81MPP06-02 Differential Pressure Sensor Purchase Payment Term

**Payment Terms：** T/T, PayPal, Alipay, WeChat

⚠ Please contact our salesmen for specific payment information.

### 3.2.81MPP06-02 Differential Pressure Sensor Main Sales Markets

**Differential Pressure Sensor Main Sales Markets:** Asia, Europe, North America, South America, Africa etc.

### 3.3.81MPP06-02 Differential Pressure Sensor Declaration Requirements

Shumatt can assist customers to provide the following documents for import customs clearance: contract, invoice, packing list, bill of lading, insurance policy, certificate of origin, etc.

### 3.4.81MPP06-02 Differential Pressure Sensor Shipping Ways

**Destination in China Areas:** SF Express, Debon Express, the corresponding logistics company can be provided according to customer requirements in special cases.

**Destinations Out of China's Areas：** DHL, UPS, FedEx, TNT air, ocean or other shipping methods required by customers

### 3.5.81MPP06-02 Differential Pressure Sensor Lead Time

**Lead Time：** Send out within 3 – 7 working days after receiving payment（Except for special products and special cases）.

### 3.6.81MPP06-02 Differential Pressure Sensor Logistics Time for Destination Out of China's Areas

**DHL Logistics Time:**

| Country or Region of Departure | Hong Kong, China | Other Countries or Regions of Asia | Australia and New Zealand | Europe | America | Other Countries |
|---|---|---|---|---|---|---|
| China's Mainland | 7 Days | 7 Days | 8 Days | 8 Days | 8-12 Days | 7-10 Days |

**UPS Logistics Time： Country or Region of Departure： China's Mainland**

| Country of Destination | Estimated Arrival Time | Country of Destination | Estimated Arrival Time | Country of Destination | Estimated Arrival Time |
|---|---|---|---|---|---|
| Japan | 3 Days | UK | 5-7Days | Egypt | 5-7 Days |
| Turkey | 5-7 Days | Singapore | 3 Days | Switzerland | 5-7 Days |


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| | | | | | |
|---|---|---|---|---|---|
| Bahrain | 5-7 Days | Latvia | 7-10 Days | New Zealand | 7-10 Days |
| Sri Lanka | 5-7 Days | Thailand | 3 Days | Austria | 5-7 Days |
| Romania | 5-7 Days | Vietnam | 3-5 Days | Estonia | 5-7 Days |
| Malaysia | 3-5 Days | Israel | 5-7 Days | Mexico | 7-10 Days |
| France | 5-7 Days | America | 5-7 Days | United Arab Emirates | 5-7 Days |
| Italy | 5-7 Days | Netherlands | 5-7 Days | Bengal | 7-10 Days |
| Lebanon | 5-7 Days | Philippine | 3-5 Days | Greece | 7-10 Days |
| South Korea | 3 Days | Spain | 5-7 Days | Myanmar | 5-7 Days |
| Canada | 5-7 Days | Germany | 5-7 Days | Saudi Arabia | 7-10 Days |
| Portugal | 5-7 Days | Australia | 5-7 Days | South Africa | 7-10 Days |
| Denmark | 5-7 Days | Belgium | 5-7 Days | Ukraine | 7-10 Days |
| India | 7-10 Days | Qatar | 7-10 Days | Poland | 5-7 Days |
| Indonesia | 3-5 Days | Morocco | 7-10 Days | Pakistan | 7-10 Days |
| Kuwait | 7-10 Days | / | / | / | / |

⚠ The logistics time is for reference only and is subject to the actual arrival.

### 3.7.81MPP06-02 Differential Pressure Sensor Packing

**Domestic Express Packaging:** Usually wrapped in waterproof scotch tape, such as picture No. 1.

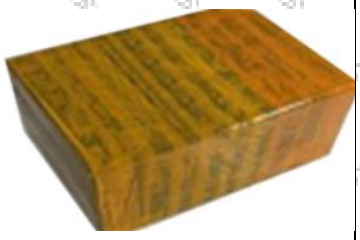
**International Express Packaging:** Wrapped with waterproof yellow tape After wrapping the black protective film, such as picture No. 2.

**Pallet Shipping:** Use fumigation free and recycling trays that meet export requirements, and use white wrapping protective film to wrap and bind with cable ties for the outside, such as picture No. 3,
also, the products can be packaged according to customers' requirements.

⚠ The packing tray is made of plastic and can be recycled.

⚠ Transparent tape, yellow tape, black wrapping protective film, white wrapping protective film are non-degradable materials, please dispose of them properly.

⚠ Minors are prohibited from using transparent tape, yellow tape, black wrapping protective film, and white wrapping protective film to avoid personal injury.

| No. | 1 | 2 | 3 |
|---|---|---|---|
| Image |  |  |  |
| Name | Domestic Express Packaging | International Express Packaging | Pallet Shipping |
| Description | Wrapped by transparent tape | Wrapped with yellow tape after wrapping black protective film | Use pallet that meet export requirements, and use white wrapping protective film to wrap and bind with cable ties |


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## 4.81MPP06-02 Differential Pressure Sensor Storage Standard

**(1) Choose a Suitable Storage Place**

The warehouse and cargo yard where the differential pressure sensor is stored should be kept clean and dry, and away from the factory buildings that generate harmful gases and dust; do not mix with acids, alkali, salt, and other substances; the storage place should have a good drainage system; the cargo yard should be flattened with gravel or furnace ash etc. to enhance the water permeability of the surface layer to keep the reservoir area dry.

**(2) Strict Requirements of Warehousing**

Strict inspections should be carried out when the differential pressure sensors are put into storage, the surface cleaning work should be done well to remove water traces, fuel stains, ashes, and other dirt, remove the rust and do anti-rust treatment in time. Packaged differential pressure sensors must be protected from damage.

**(3) Keep The Warehouse Dry And Preventing Moisture**

The relative humidity is usually below 70% for the differential pressure sensors placed in the room, and the corrosion of the differential pressure sensors is significantly reduced.

Differential pressure sensors must be stored in the warehouse, and they are forbidden to store in the same warehouse with commodities with high water content.

**(4) Stack Properly**

After the differential pressure sensor is exposed to rain, the corrosion rate will increase significantly. The purpose of sealing is to isolate the differential pressure sensor from rainwater and humid air, so the warehouse window should be checked in time to avoid rainwater entering the warehouse.

If the differential pressure sensor package is damaged, it should be repaired or replaced; when the package is damp, the packaging material should be dried; if the original anti-corrosion and fuel applied at the factory is found to be damaged or dried up, it should be cleaned and re-applied fuel in time.

⚠ It is forbidden to leave the differential pressure sensor exposed in the air for a long time.

⚠ It is forbidden to store acids, alkalis, salts, and other substances together with the differential pressure sensor.

⚠ The unpacked differential pressure sensor must be rust-proof during secondary storage.

⚠ After being unpacked, the differential pressure sensor must be treated with rust prevention measures when it is stored again.

## 5.Company Information

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### 5.1. Company Introduction

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**English Name：** Shenzhen Shumatt Technology Co., Ltd

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**Shenzhen Office：** 11-12, Floor 14, Building 13, Qinchengda Building, Exit A, Honglang North Subway Station, Bao'an District, Shenzhen, China's Mainland

**Shenzhen Office：** Exit C, Qiao Touxi Metro Station, N0. 66 Chongqing Road, Fuhai Avenue, Bao'an District, Shenzhen, China Mainland

**Hong Kong Office：** Jianfa Street Industrial Zone, Tuen Mun, New Territories, Hong Kong, China

**After-sales Service Address：** Please contact our salesmen to obtain and provide the corresponding product maintenance reasons（Reference: **1.8. 81MPP06-02 Differential Pressure Sensor Warranty Instructions**）

### 5.2. Salesmen's Contact Information

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