The Sensor and Transducer Training Kit is designed for the study of sensor application in industry. For example, electrical beam sensor, proximity sensor, strain gauge, pressure sensor, temperature sensor & photo sensor and controller. It acts as a signal receiver from the sensors and transformed to control other system processes.

It is designed on the panel system concept, easy to use for experiments. The size of module panel is designed according to DIN standard. The front plate of module is made of Uma board. Its components are made of strong material and high insulation. All connection points are via safety socket. The back cover of module panel is made of ABS plastic. Except for module panel with a heat generator, it is made of metal. The symbol of each component is engraved on the front plate of module panel and combined with the ROD press-in socket type. The two levels of panel frame is made by aluminum with coated anodize for strong construction.

### PRODUCT MODULES

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Size: 67mm</td>
<td></td>
<td>Range: 0 ~ 10 Kg/cm², 0 ~ 150 psi</td>
<td>Sensor type: TC type K, RTD Pt 100</td>
<td>Input: 240 VAC</td>
<td></td>
<td>Input: 5 VDC</td>
<td></td>
</tr>
<tr>
<td>Resistance: 1 k ohm</td>
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<table>
<thead>
<tr>
<th>Capacitive Proximity Switch</th>
<th>Code 452-009</th>
<th>Photo Sensor</th>
<th>Code 452-017</th>
<th>Inductive Proximity Switch</th>
<th>Code 452-020</th>
<th>Pressure Switch</th>
<th>Code 452-003</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input: 24 VDC</td>
<td></td>
<td>Input: 24 VDC</td>
<td></td>
<td>Input: 24 VDC</td>
<td></td>
<td>Range: -0.2 ~ 7.5 bar, 6 ~ 108 psi</td>
<td></td>
</tr>
<tr>
<td>Load Current: 400 mA</td>
<td></td>
<td>Output type: NPN transistor open – collector</td>
<td></td>
<td>Load Current: 400 mA</td>
<td></td>
<td>Fine setting: -0.2 ~ 7.5 bar, 6 ~ 108 psi</td>
<td></td>
</tr>
<tr>
<td>Sensing Range: 20 mm</td>
<td></td>
<td></td>
<td></td>
<td>Sensing Range: 20 mm</td>
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</thead>
<tbody>
<tr>
<td>Input: 10 VDC</td>
<td></td>
<td>Input: 24 VDC</td>
<td></td>
<td>Input: 24 VDC</td>
<td></td>
<td>Input: 24 VDC</td>
<td></td>
</tr>
<tr>
<td>Output: NPN transistor open – collector</td>
<td></td>
<td>Output state: Light ON, Dark ON</td>
<td></td>
<td>Output state: Light ON, Dark ON</td>
<td></td>
<td>Output state: Light ON, Dark ON</td>
<td></td>
</tr>
<tr>
<td>Operate with Load Cell Transmitter panel</td>
<td></td>
<td>Sensing object: Opaque, Translucent, Transparent</td>
<td></td>
<td>Sensing object: Opaque, Translucent, Transparent</td>
<td></td>
<td>Operate with Thru-Beam mode projector panel</td>
<td></td>
</tr>
</tbody>
</table>
# SENSOR AND TRANSDUCER TRAINING KIT

## Model Number: GOTT-SNTT-2453

### LINEAR SCALE | CODE 452-014
--- | ---
Range: 0 ~ 25 mm
Adjust fine: 0.01 mm

### NPN LOAD, PNP LOAD | CODE 452-015
--- | ---
Input: 24 VDC
Output type: NPN, PNP

### DC MILLIAMMETER | CODE 452-021
--- | ---
Input: 240 VAC

### LOAD CELL TRANSMITTER | CODE 452-008
--- | ---
Input: 5 VDC
open – collector
Operate with Load Cell module

### MAGNETIC FLOAT | CODE 452-018
--- | ---
Input: 24 VDC
Sensor type: Reed switch
Operate with Level control panel

### LEVEL CONTROL | CODE 452-019
--- | ---
Input: 24 VDC
Output type: Relay NO/NC
Operate with Magnetic Float panel

### PROCESS CONTROLLER | CODE 452-020
--- | ---
Input: 100 ~ 240 VAC
Input type: Thermocouple, RTD
Output type: Relay NO

### THRU-BEAM MODE PROJECTOR | CODE 452-013
--- | ---
Input: 24 VDC
Adjust range: -50 to 50 degree
Operate with Thru-Beam mode detector panel

### LOW TEMPERATURE UNIT | CODE 452-022
--- | ---
Input: 240 VAC
Low temperature: -5 degree

### PUMP | CODE 452-004
--- | ---
Pressure: 0 ~ 150 psi, 10 Kg/cm²

### VERTICAL FRAME | CODE 452-023
--- | ---
High Level: Din Standard A4 with two shelves
Material: Aluminum
Side Frame: T shape
Size: 3-Layer 1450mm Length

### THE WEIGHT | CODE 452-025
--- | ---
Object size: 10, 50, 100, 150, 200 (gram)

### SAFETY CONNECTING LEAD | CODE 237-001
--- | ---
4mm connecting leads

### EXPERIMENT MANUAL | CODE 452-029
--- | ---

### EXPERIMENT TOPICS:
- Power Supply Console
- Bourdon Gauge
- Pressure Switch
- Temperature Sensor
- Ultrasonic & Humidity Sensor
- Load Cell & Load Cell Transmitter
- Capacitive Proximity Sensor
- Inductive Proximity Switch
- Diffuse Reflective Mode
- Retro-Reflective Mode
- Thru Beam Sensor
- Linear Scale
- NPN Load, PNP Load
- Photo Sensor
- Magnetic Float
- Level Control
- DC Milliammeter
- Low Temperature Unit
- LVDT (Linear Variable Differential Transformer)

### OPTIONAL MODULE:
Please refer to page “Motor / Generator / Cut Away Unit”
- RPM/ Torque Meter
  (Code: 609-001)
- Torque & RPM Sensor
  (Code: 609-002)

### Manuals:
1. All manuals are written in English
2. Model Answer
3. Teaching Manuals

### General Terms:
1. Accessories will be provided where applicable.
2. Manuals & Training will be provided where applicable.
3. Designs & Specifications are subject to change without notice.
4. We reserve the right to discontinue the manufacturing of any product.

### Warranty:
2 Years

### ORDERING INFORMATION:
<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL NUMBER</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENSOR AND TRANSDUCER TRAINING KIT</td>
<td>GOTT-PEAM-379</td>
<td>452-000</td>
</tr>
</tbody>
</table>

*Proposed design only, subject to changes without any notice.*