

Transducers and Sensors

Mechanical Pressure Transducer

P35

The P35 is a single pressure input fan speed controller for air cooled condensers. The controller varies the fan speed by directly sensing the pressure changes in a refrigerant circuit.

The setpoint of each pressure transducer can be separately adjusted.

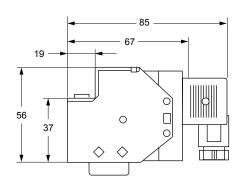
The controller selects the input with the greatest cooling demand to control the fan speed. The controllers can be used in non corrosive refrigerant systems and vary the supply voltage to the motor from 45% to \geq 95% of the supplied voltage using the phase cutting principle. If the pressure drops below the adjusted setpoint minus the proportional band, the output to the motor is zero volt or the adjusted min. speed setting. This provides speed variation of permanent split capacitor or shaded pole motors which do not draw more than 3 A (rms) full load current. The motor manufacturer should have approved his product for this speed control principle.

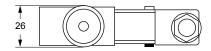
It is recommended to confirm with the electric motor manufacturer, that the motor can be used with a controller, using the phase cutting principle for speed variation.

Features

- Condenser pressure control by fan speed variation
- Pressure input / Dual pressure input (BR models)
- Model with heat pump input available
- Transducers with proven reliability
- Easy accessible setpoint screw
- Built-in suppression filter
- Adjustable minimum speed or cut-off selection
- Motor speed action can be reversed by interchanging only two wires
- Small dimensions and DIN rail mounted







Dimensions in mm



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Replacement Pressure transducers for P215 version (300 KOhm)

| Ordering Codes | Range | Setting (bar) | Style | Cap Length (m) | Additional Features (Style 50 is allowed on the Dutch market) |
|----------------|--------|---------------|-------|----------------|---|
| P35AC-9100 | 14/24 | 16 | | 0.9 | |
| P35AC-9101 | 8/14 | 10 | 454 | | |
| P35AC-9102 | 3.5/10 | 7 | 45A | | |
| P35AC-9108 | 14/24 | 21 | | | |
| P35AC-9202 | 14/24 | 16 | 47 | | |
| P35AC-9203 | 8/14 | 10 | 47 | | |
| P35AC-9500 | 14/24 | 16 | | | Same as P35AC-9100 but Style 50 |
| P35AC-9501 | 8/14 | 10 | 50 | | Same as P35AC-9101 but Style 50 |
| P35AC-9507 | 14/24 | 16 | | | Same as P35AC-9100 but Style 51 |
| P35AC-9508 | 8/14 | 10 | 51 | | Same as P35AC-9101 but Style 51 |
| P35AC-9512 | 22/42 | 30 | 50 | | For R410A applications |
| P35AC-9600 | 14/24 | 16 | 40 | | (also used for replacement P15/P215 series fan speed |
| P35AC-9601 | 8/14 | 10 | 13 | | controllers) |

Replacement Pressure transducers for P255 version (100 KOhm)

| Ordering Codes | Range | Setting (bar) | Style | Cap Length (m) | Additional Features (Style 50 is allowed on the Dutch market) |
|----------------|--------|---------------|-----------------|----------------|---|
| P35AC-9200 | 14/24 | 16 | 47 | 0.9 | |
| P35AC-9201 | 8/14 | 10 | 47 | | |
| P35AC-9105 | 14/24 | 10 | | | |
| P35AC-9106 | 3.5/10 | 16 | 45A 13 50 | | |
| P35AC-9107 | 8/14 | 6.2 | | | |
| P35AC-9603 | 14/24 | 10 | | | |
| P35AC-9604 | 8/14 | 16 | | | |
| P35AC-9505 | 14/24 | 10 | | | Same as P35AC-9105 but Style 50 |
| P35AC-9506 | 22/ | 16 | | | Same as P35AC-9106 but Style 50 |
| P35AC-9511 | 8/14 | 30 | | | For R410A applications |

Replacement Pressure transducers for P215LR-9120 model 400 Vac (500 KOhm)

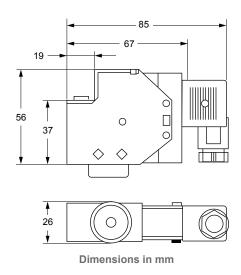
| Ordering Codes | Range | Setting (bar) | Style | Cap Length (m) | Additional Features (Style 50 is allowed on the Dutch market) |
|----------------|-------|---------------|-------|----------------|---|
| P35AC-9510 | 14/24 | 16 | 50 | 0.9 | Special 500 KOhm for P215LR-400V version |
| P35AC-9513 | 22/40 | 30 | 50 | | Special 500 KOhm version for R410A applications |



Transducers and Sensors

Mechanical Pressure Transducer P35





Replacement Press. transducers for P215 versions (300 KOhm)

| Ordering Codes | Range | Setting (bar) | Style | Cap. Length (m) | Additional Features Note: Style 50 is allowed on the Dutch market! |
|----------------|-------|---------------|-------|-----------------|--|
| P35AC -9100 | 14/24 | 16 | 45A | | |
| P35AC -9202 | 14/24 | 16 | 47 | 50 | |
| P35AC -9203 | 8/14 | 10 | | | |
| P35AC -9500 | 14/24 | 16 | F0 | | Same as P35AC-9100 but Style 50 |
| P35AC -9501 | 8/14 | 10 | 50 | | Same as P35AC-9101 but Style 50 |
| P35AC -9512 | 22/42 | 30 | 50 | | For R410A applications |
| P35AC -9600 | 14/24 | 16 | 13 | | (also used for replacement P15/P215 series fan speed controllers) |

Replacement Press. transducers P255 versions (100 KOhm)

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|---------------------------------------|-------|---------------|-------|-----------------|--|--|
| Ordering Codes | Range | Setting (bar) | Style | Cap. Length (m) | Additional Features Note: Style 50 is allowed on the Dutch market! | |
| P35AC -9200 | 14/24 | 16 | 47 | 0.9 | | |
| P35AC -9201 | 8/14 | 10 | | | | |
| P35AC -9106 | 14/24 | 16 | 45A | | | |
| P35AC -9604 | 14/24 | | 13 | | | |
| P35AC -9505 | 8/14 | 10 | | | Same as P35AC-9105 but Style 50 | |
| P35AC -9506 | 14/24 | 16 | 50 | | Same as P35AC-9106 but Style 50 | |
| P35AC -9511 | 22/42 | 30 | | | For R410A applications | |

Replacement Press. transducers P255 versions (500 KOhm)

| Ordering Codes | Range | Setting (bar) | | | Additional Features Note: Style 50 is allowed on the Dutch market! |
|----------------|-------|---------------|----|-----|--|
| P35AC-9510 | 14/24 | 16 | F0 | 0.0 | Special 500 KOhm for P215LR-400V. version |
| P35AC-9513 | 22/40 | 30 | 50 | 0.9 | Special 500 KOhm version for R410A applications |



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Accessories

| Ordering Codes | Description | | | | | |
|-----------------------|---|--|--|--|--|--|
| BKT034N602R | Mounting bracket + screws for P35AC transducer | | | | | |
| | Replacement Parts | | | | | |
| P38AA-9111 | Replacement electronic module P215LR-230 V types | | | | | |
| P38AA-9112 | Replacement electronic module P215LR-230 V incl. heatpump input types | | | | | |
| P38AA-9211 | Replacement electronic module P215BR-230 V types | | | | | |
| P38AA-9311 | Replacement electronic module P215TR-230 V types | | | | | |
| P38AD-9100 | Replacement electronic module P255MM | | | | | |
| P38AD-9101 | Replacement electronic module P255ML | | | | | |