Alicat Part Number Decoder

Elements usually present:

MCRWD-40SLPM-TFTRD-DB15-MODBUS-485-54X54-SAE-EPDM-CC

Primary Instrument Types
L Liquid flow meter
M Gas mass flow meter
P Pressure gauge

Secondary Instrument Types
3 Remote pressure sense port
AS Low-range pressure sensor
B Battery-powered
C Flow or pressure controller
D Dual valves
E Enclosed valve
H Hammerhead valves
P *Large Pneutronics* valve
Q High pressure gas flow
R High-flow Rolamite valve
S Stainless sensor for corrosives
V Enclosed valve plus pneumatic shutoff valve
W Whisper™ low pressure drop

Display Options
D Backlit monochrome
0 No display
RD Backlit monochrome remote display
TFT Backlit color
TFTRD Backlit color remote display

Stock Instrument Ranges
2INH2OD Differential pressure range
2INH2OG Gauge pressure range
#CCM Liquid flow range (ccm)
EXTSEN External pressure sensor
#LPM Liquid flow range (lpm)
#PSIA Absolute pressure range (psi)
#PSID Differential pressure range (psi)
#PSIG Gauge pressure range (psi)
#SCCM Gas flow range (sccm)
#SLPM Gas flow range (slpm)

Communications Options
[no notation] RS-232 over 8-pin mini-DIN
485 RS-485 protocol
DB9x 9-pin D-sub with x pinout
DB15x 15-pin D-sub with x pinout
DB15HD High-density 15-pin D-sub
DNET DeviceNet
EIP Ethernet/IP
I 6-pin locking DIN plus 8-pin mini-DIN
IO 6-pin locking DIN only
ISC 4-pin locking DIN for external sensor
MODBUS Modbus-RTU
PROFIBUS Profibus DP-V1
RJ45 8-pin RJ45

Valve Options
[no notation] Default valve (controllers)
BV Integrated bleed valve
DS Downstream valve position
NO Normally open valve
PAR Rolamite valve parallel wound coil
PCA# *ASCO Numatics* valve orifice size
PCV# *Small Pneutronics* valve orifice size
RV Detached remote valve
SV *Small Pneutronics* stainless valve
#X# Rolamite valve hole pattern

Build Options
[no notation] NPT threads, Viton elastomers
30PSIA Low-range sensor for gas flow
#BSP British Standard Pipe threads
CC Conformal coating
#COMP Welded compression fittings
DPORT Down port connections
EPDM EPDM elastomers
FFKM FFKM/Calrez elastomers
IB Integrated barometer
IP# Ingress protection rating
IPC Integrated potentiometer control
NESSI NeSSI-compatible flow body
#NPT non-standard NPT threads
REMOTE Remote electronics assembly
SAE SAE threads
SG Separate ground
SILICONE Silicone elastomers
TMDPORT Top-mount down port
#VCR Welded VCR fittings
#VCO Welded VCO fittings
VITON FKM/Viton elastomers
X CSA Class 1 Division 2/ATEX Zone 2

ALICAT SCIENTIFIC

alicat.com

Adder Codes

Adders usually present:

/CM, 102P, RIN, CIN, GAS: CH4, RANGE: 85 SCFH, TOT (99999.99 SCF), CLV, PU: V, BAUD: 38400, STP: 20°C, CPNT (5, 10), DS, 17025LF

Analog Signals
1x 1-5 Vdc
5x 0-5 Vdc
10x 0-10 Vdc
Cx 4-20 mA
x**2**x secondary signal

x**IN** Setpoint input
x**M** Gas mass flow output
x**P** Pressure output
x**T** Temperature output
x**V** Gas or liquid volumetric flow output

RIN RS-232 input selection

#
17025HF 17025 (L.A.B.) high-flow certification
17025LF 17025 (L.A.B.) low-flow certification

A
A2LA 17025 (A2LA) calibration certification
ALHx: y High flow alarm above y setpoint
ALLx: y Low flow alarm below y setpoint
5 5 Vdc analog output
12 12 Vdc analog output
24 24 Vdc analog output
OD 500 mA open drain
APC Absolute pressure calibration for gas flow
APHC High-accuracy absolute pressure calibration for gas flow

B
BAUD: # Baud rate
BD Bidirectional flow or gauge pressure calibration

C
CLP Closed-loop pressure control
CLV Closed-loop volumetric flow control
CPNT (x,y,z) Additional calibration points

D
DB: # Deadband % preset
DS Downstream valve placement

G
GAS: x Initial gas selection

H
HC High-accuracy flow or pressure calibration

I
ID: # RS-232/485 unit address

L
LIQUID: x Custom liquid calibration

M
MAXAVG Maximum geometric running averaging

N
NTP: x Custom NTP conditions

O
OPL: x Overpressure limit for valve closure
OXC Oxygen cleaning

P
P1: x Expected inlet pressure
P2: x Expected outlet pressure
PD (p, d) Custom PD valve tuning
PD2I (p, d, i) Custom PD^2I valve tuning
POP Power over Profibus
PROFIBUS: # Profibus unit address
PU: x Selects flow parameter on power-up
PUGS: x Gas selection on power-up
PUL: x Pulsed analog output at x flow total
PUSP: # Setpoint on power-up
PUT: # Tare after x seconds on power-up

R
RANGE: x Custom calibration range
RCPNT (x,y,z) Replacement calibration points
RTL Right-to-left flow direction

S
SENIN: x External pressure sensor input signal
SR: # Streaming rate in milliseconds
STP: x Custom STP conditions
STR Preset to streaming mode

T
TOT Integrated flow totalizer
TOT (x y, **R/F/E**) Custom resolution x and/or units y
E Rolls over and flashes OVR error at max count
F Freezes and flashes OVR error at max count
R Rolls over at max count
TOTAVG Totalizer averaging
TOTBD# Bidirectional totalizers:
TOTBD1 Negative values subtract from total
TOTBD2 Negative values subtract from total, and total can never be negative
TOTBD3 Negative values have no effect
TOTBD4 Negative values ignored, resets at zero

V
VOL: x Expected closed volume