
PRESSUREMAP DEVICE TYPES

INTRODUCTION

This section contains tables listing the CPAMS letter coding used by PressureMAP, the PressureMAP device types, and the 289H LSS and Dial-a-Ducer transducer types.

CPAMS UNIT	PRESSURE & FLOW TRANSDUCERS	CONTACT ALARMS	VOLUME COUNTERS	TRUNK/TOLL CONTACTORS
Chatlos L1	P	SS	VF	RC
Chatlos L2	P/TT	MA	MF	MC
Chatlos MPUZ	P	MA	MF	MC
Chatlos 600	DT/ST/TT	MA/SA	MF	MC
Chatlos L3	DT/ST/TT	MA	MF	MC
Teleducer 50	DT/ST/TT	MA	-	MC
Hercules 740	DT/ST	MA/SA	MF	MC
Hercules 940	DT/ST	MA/SA	MF	MC
Sparton 5301A	T	K	V	C
Sparton 5300B	T	B	-	C
Sparton 5318	T	B	-	-

TABLE 3-1: CPAMS LETTER CODING

MAP SYSTEM QUICK REFERENCE

PressureMAP Device Types	
Pressure Transducers	
AP	Aerial Cable PTD
BP	Buried Cable PTD
CP	Compressor/Dryer PTD
DP	Distribution Panel PTD
EP	Pipe Endpoint PTD
FP	Flow Bank PTD
GP	Aerial Single Feed PTD
HP	Buried Single Feed PTD
JP	Underground Single Feed PTD
MP	Manifold PTD (associated w/ a pipe)
PP	Pipe Midpoint PTD
QP	Priority Aerial Cable PTD
RP	Remote Dryer PTD
SP	Source (Pipe Panel) PTD
TP	Trunk/Toll Cable PTD
UP	Underground Cable PTD
WP	Deep Underground Cable PTD
\$P	High Priority PTD
Flow Transducers	
DF	Distribution Panel FTD (not associated w/ a pipe)
IF	Cable FTD
LF	Lateral FTD
MF	Manifold or other FTD (associated w/ a pipe)
QF	Single Feed Cable FTD
RF	Remote Dryer FTD (not associated w/ a pipe)
SF	Source (Pipe Panel) FTD
\$F	High Priority FTD
Contactors	
AC	Aerial Cable Pressure Contactor
BC	Buried Cable Pressure Contactor
CC	Compressor/Dryer Pressure Contactor
DC	Distribution Panel Pressure Contactor
EC	Pipe Endpoint Pressure Contactor
PC	Pipe Midpoint Pressure Contactor
RC	Remote Compressor/Dryer Pressure Contactor
SC	Source Pressure Contactor
TC	Trunk/Toll Pressure Contactor
UC	Underground Cable Pressure Contactor
WC	Deep Underground Cable Pressure Contactor
XC	Cable Theft Monitoring Contactor
\$C	High Priority Pressure Contactor
Contact Alarms	
CA	Compressor/Dryer Contact Alarm
DA	Distribution Panel Contact Alarm
KA	Alternating Compressor Contact Alarm
PA	Sparton 270/540K ohm Converter Contact Alarm
RA	Remote Dryer/Compressor Contact Alarm
SA	Source Pipe Panel Contact Alarm
\$A	High Priority Contact Alarm
YA	Configurable "Minor" Contact Alarm
ZA	Configurable "Major" Contact Alarm
Volume Counters (not 289H-compatible)	
DV	Distribution Panel Volume Counter (not associated w/ a pipe)
MV	Manifold or Distribution Panel Vol. Counter (assoc. w/ a pipe)
RV	Remote Compressor/Dryer Volume Contactor
SV	Source Volume Counter
\$V	High Priority Volume Counter
Special Use Device Types	
AB	Barometric Pressure Transducer
AT	Aerial Cable Temperature Transducer (289H)
AV	AC Voltage Transducer, 115VAC (289H)
BI	Bi-Directional Flow Transducer
BV	AC Voltage Transducer, 230VAC (289H)
CV	3-Phase AC Voltage Transducer (289H)
CW	Chilled Water Temperature Transducer (289H)
FT	Fahrenheit Temperature Transducer (Dial-a-Ducer)
JD	Air Temperature Sensor in Relative Humidity/Temperature Transducer (289)
LB	Air Tank Pressure Transducer - Metric (289H)
MB	Air Tank Volume TD, % Remaining (289H)
NB	Air Tank Volume Transducer (289H)
RG	Wire Pair Monitor - Ring/Gnd (289H)
RH	Relative Humidity Sensor (289H)
RS	Wire Pair Monitor - Tip/Ring (289H)
RT	Wire Pair Monitor - Tip/Gnd (289H)
TE	Air Temperature Sensor (289H)
VD	DC Voltage Output Measurement (289H)
VE	Variable Location Electric Transducer (TMACS)
VO	AC Voltage Output Measurement (289H)
VT	Variable Location Temperature Transducer (TMACS)
WA	Water Level Transducer - Addressable (289H)
WL	Water Level Transducer (289H)
WW	Warm Water Temperature TD (289H)
XL	Utility Hole Water Level Transducer (289H)
\$T	High Priority Temperature Transducer

TABLE 3-2: PRESSUREMAP DEVICE TYPES

289H Resistive Transducer Types	
Pressure—PSI	
RP	Standard Resistive Pressure Transducer: 0–9.5 PSI
RP/HP-PSI	High Pressure Resistive Transducer: 5–14.5 PSI
RP/RG-PSI	Resistive Pressure Transducer using ring with sheath as ground
RP/RG/HP-PSI	High Pressure Resistive Transducer using ring with sheath as ground
RP/TG-PSI	Resistive Pressure Transducer using tip with sheath as ground
RP/TG/HP-PSI	High Pressure Resistive Transducer using tip with sheath as ground
Pressure—KPA	
RP-KPA	Standard Resistive KPA Pressure Transducer: 0–65.5 KPA
RP/HP-KPA	High Pressure Resistive KPA Transducer: 34.48–99.98 KPA
RP/RG-KPA	Resistive KPA Pressure Transducer using ring with sheath as ground
RP/RG/HP-KPA	High Pressure Resistive KPA Transducer using ring with sheath as ground
RP/TG-KPA	Resistive KPA Pressure Transducer using tip with sheath as ground
RP/TG/HP-KPA	High Pressure Resistive KPA Transducer using tip with sheath as ground
Flow—SCFH	
RF/(range)	Standard Resistive Flow Transducer—9 ranges of SCFH: 0–9.5, 0–19.0, 0–20.0, 0–47.5, 0–50.0, 0–95.0, 0–100.0, 0–190.0, 0–200.0
RF/RG/(range)	Resistive Flow Transducer using ring with sheath as ground—9 ranges of SCFH: 0–9.5, 0–19.0, 0–20.0, 0–47.5, 0–50.0, 0–95.0, 0–100.0, 0–190.0, 0–200.0
RF/TG/(range)	Resistive Flow Transducer using tip with sheath as ground—9 ranges of SCFH: 0–9.5, 0–19.0, 0–20.0, 0–47.5, 0–50.0, 0–95.0, 0–100.0, 0–190.0, 0–200.0
Flow—LPH	
RF/(range)	Resistive Flow Transducer—9 ranges of LPH: 0–270, 0–540, 0–570, 0–1350, 0–1420, 0–2700, 0–2830, 0–5380, 0–5670
RF/RG/(range)	Resistive Flow Transducer using ring with sheath as ground—9 ranges of LPH: 0–270, 0–540, 0–570, 0–1350, 0–1420, 0–2700, 0–2830, 0–5380, 0–5670
RF/TG/(range)	Resistive Flow Transducer using tip with sheath as ground—9 ranges of LPH: 0–270, 0–540, 0–570, 0–1350, 0–1420, 0–2700, 0–2830, 0–5380, 0–5670
Contact Alarm	
CPAMS_TD	Standard Resistive Contact Alarm
CPAMS_TD/RG	Resistive Contact Alarm using ring with sheath as ground
CPAMS_TD/TG	Resistive Contact Alarm using tip with sheath as ground
AC/115	Contact Alarm for 115V: 540K resistance OK, 270K resistance is ALRM
DRYER	Contact Alarm for 115V: 540K resistance OK, 270K resistance is ALRM (same as AC/115)
AC/230	Contact Alarm for 230V; 540K resistance OK, 270K resistance is ALRM
RR/540K	Contact Alarm; 540K resistance OK, SHRT is ALRM
Other Device Applications	
RG/100M	Resistive open pair, monitors the resistance of a pair (Ring/Gnd)
RR/100M	Resistive open pair, monitors the resistance of a pair (Tip/Ring)
RT/100M	Resistive open pair, monitors the resistance of a pair (Tip/Gnd)
TEMP/212	Thermistor Water Temperature Transducer; range -40 to +212° F
TEMP/212/H	Thermistor Air Temperature Transducer; range 32 to 212° F

TABLE 3-3: 289H RESISTIVE TRANSDUCER TYPES

289H Current Loop Transducer Types

289 and 289H Current Loop Transducer Types

Pressure—PSI

CPA/15.0	Current Loop Pressure Transducer, 0–15.0 PSI (absolute)
CPA/30.0	Current Loop Pressure Transducer, 0–30.0 PSI (absolute)
CPA/RG/(range)	Current Loop Pressure Transducer using ring with sheath as ground, 2 ranges: 0–15.0 PSI and 0–30.0 PSI

Pressure—KPA

CPA/100.0	Current Loop Pressure Transducer, 0–100.0 KPA (absolute)
CPA/200.0	Current Loop Pressure Transducer, 0–200.0 KPA (absolute)
CPA/RG/(range)	Current Loop Pressure Transducer using ring with sheath as ground, 2 ranges: 0–100.0 KPA and 0–200.0 KPA

Flow—SCFH

CF/9.5	Current Loop Flow Transducer, 0–9.5 SCFH
CF/19.0	Current Loop Flow Transducer, 0–19.0 SCFH
CF/47.5	Current Loop Flow Transducer, 0–47.5 SCFH
CF/95.0	Current Loop Flow Transducer, 0–95.0 SCFH
CF/190	Current Loop Flow Transducer, 0–190 SCFH
CF/475.0	Current Loop Flow Transducer, 0–475.0 SCFH
CF/950.0	Current Loop Flow Transducer, 0–950.0 SCFH
CF/RG/(range)	Current Loop Flow Transducer using ring with sheath as ground, 7 ranges: 0–9.5 SCFH, 0–19.0 SCFH, 0–47.5 SCFH, 0–95.0 SCFH, 0–190.0 SCFH, 0–475.0 SCFH, 0–950.0 SCFH

Flow—LPH

CF/270	Current Loop Flow Transducer, 0–270 LPH
CF/540	Current Loop Flow Transducer, 0–540 LPH
CF/1350	Current Loop Flow Transducer, 0–1350 LPH
CF/2700	Current Loop Flow Transducer, 0–2700 LPH
CF/5345	Current Loop Flow Transducer, 0–5345 LPH
CF/13500	Current Loop Flow Transducer, 0–13500 LPH
CF/27000	Current Loop Flow Transducer, 0–27000 LPH
CF/RG/(range)	Current Loop Flow Transducer using ring with sheath as ground, 7 ranges: 0–270 KPA, 0–540 KPA, 0–1350 KPA, 0–2700 KPA, 0–5345 KPA, 0–13500 KPA, 0–27000 KPA

Other Device Applications

BARO/35	Barometric Pressure Transducer, range 20.6–91.1 inches of Hg
BARO/RG/35	Barometric Pressure Transducer using ring with sheath as ground, range: 20.6–91.1 inches of Hg
BARO/1200	Barometric Pressure Transducer, range: 750–1200 millibar
BARO/RG/1200	Barometric Pressure Transducer using ring with sheath as ground, range: 750–1200 millibar
RH/100	Relative Humidity Transducer, range: 0%–100% RH
TANK	Tank Volume Transducer, 0–200 cubic ft
EURO_TANK	Tank Pressure Transducer (metric), 0–204 bars
TEMP/167	Temperature Transducer, range: 0–167° F
TEMP/RG/167	Temperature Transducer using ring with sheath as ground, range: 0–167° F
TEMP/75	Temperature Transducer, range: 0–75° C
TEMP/RG/75	Temperature Transducer using ring with sheath as ground, range:

TABLE 3-4: 289H CURRENT LOOP TRANSDUCER TYPES

289H Voltage Measurement Transducer Types	
VAC/TG	AC Voltage, Tip to Ground
VAC/RG	AC Voltage, Ring to Ground
VDC/TG	DC Voltage, Tip to Ground
VDC/RG	DC Voltage, Ring to Ground
VAC/300	AC Voltage, Tip to Ring

TABLE 3-5: VOLTAGE MEASUREMENT TRANSDUCER TYPES

289H LSS Addressable Transducer Types	
Flow—SCFH	
AF/9.5	289H Addressable Flow Transducer, 0–9.5 SCFH
AF/19.0	289H Addressable Flow Transducer, 0–19.0 SCFH
AF/47.5	289H Addressable Flow Transducer, 0–47.5 SCFH
AF/95.0	289H Addressable Flow Transducer, 0–95.0 SCFH
AF/475.0	289H Addressable Flow Transducer, 0–475.0 SCFH
AF/950.0	289H Addressable Flow Transducer, 0–950.0 SCFH
Flow—LPH	
AF/270	289H Addressable Flow Transducer, 0–270 LPH
AF/540	289H Addressable Flow Transducer, 0–540 LPH
AF/1350	289H Addressable Flow Transducer, 0–1350 LPH
AF/2700	289H Addressable Flow Transducer, 0–2700 LPH
Pressure—PSI	
APA	289H Addressable PSI Pressure Transducer, 0–15 PSI (absolute)
Pressure—KPA	
APA/KPA	289H Addressable Pressure Transducer, 0–100.0 KPA (absolute)
Dual—Pressure Side	
APA/X2	289H Addressable Pressure/Flow Transducer, 0–15.0 PSI (absolute)
APA/KPAX2	289H Addressable Pressure/Flow Transducer, 0–100.0 KPA (absolute)
Dual—Flow Side	
AF/9.5X2	289H Addressable Pressure/Flow Transducer, 0–9.5 SCFH
AF/19.0X2	289H Addressable Pressure/Flow Transducer, 0–19.0 SCFH
AF/47.5X2	289H Addressable Pressure/Flow Transducer, 0–47.5 SCFH
AF/95.0X2	289H Addressable Pressure/Flow Transducer, 0–95.0 SCFH
AF/475.0X2	289H Addressable Pressure/Flow Transducer, 0–475.0 SCFH
AF/950.0X2	289H Addressable Pressure/Flow Transducer, 0–950.0 SCFH
AF/270X2	289H Addressable Pressure/Flow Transducer, 0–270 LPH
AF/540X2	289H Addressable Pressure/Flow Transducer, 0–540 LPH
AF/1350X2	289H Addressable Pressure/Flow Transducer, 0–1350 LPH
AF/2700X2	289H Addressable Pressure/Flow Transducer, 0–2700 LPH
Special Addressable Transducers	
ABARO/1200	289H Addressable Barometric Pressure Transducer, 750–1200 millibars
ABARO/35	289H Addressable Barometric Pressure Transducer, 20.6–35.0 inches of Hg
AWATER/30	289H Addressable Water Level Transducer, 0–30 feet

TABLE 3-6: 289H ADDRESSABLE TRANSDUCER TYPES

Chatlos Addressable Transducer Types	
Flow—SCFH	
AF/C9.5	Chatlos Addressable Flow Transducer, 0–9.5 SCFH
AF/C5/9.5	Chatlos 5-Bank Addressable FTD, 0–9.5 SCFH
AF/C10/9.5	Chatlos 10-Bank Addressable FTD, 0–9.5 SCFH
AF/C19.0	Chatlos Addressable Flow Transducer, 0–19.0 SCFH
AF/C5/19.0	Chatlos 5-Bank Addressable FTD, 0–19.0 SCFH
AF/C10/19.0	Chatlos 10-Bank Addressable FTD, 0–19.0 SCFH
AF/C47.5	Chatlos Addressable Flow Transducer, 0–47.5 SCFH
AF/C5/47.5	Chatlos 5-Bank Addressable FTD, 0–47.5 SCFH
AF/C10/47.5	Chatlos 10-Bank Addressable FTD, 0–47.5 SCFH
AF/C50.0	Chatlos Addressable Flow Transducer, 0–50.0 SCFH
AF/C5/50.0	Chatlos 5-Bank Addressable FTD, 0–50.0 SCFH
AF/C10/50.0	Chatlos 10-Bank Addressable FTD, 0–50.0 SCFH
AF/C95.0	Chatlos Addressable Flow Transducer, 0–95.0 SCFH
AF/C5/95.0	Chatlos 5-Bank Addressable FTD, 0–95.0 SCFH
AF/C10/95.0	Chatlos 10-Bank Addressable FTD, 0–95.0 SCFH
AF/C100.0	Chatlos Addressable Flow Transducer, 0–100.0 SCFH
AF/C5/100.0	Chatlos 5-Bank Addressable FTD, 0–100.0 SCFH
AF/C10/100.0	Chatlos 10-Bank Addressable FTD, 0–100.0 SCFH
Flow—LPH	
AF/C270	Chatlos Addressable Flow Transducer, 0–270 LPH
AF/C5/270	Chatlos 5-Bank Addressable FTD, 0–270 LPH
AF/C10/270	Chatlos 10-Bank Addressable FTD, 0–270 LPH
AF/C540	Chatlos Addressable Flow Transducer, 0–540 LPH
AF/C5/540	Chatlos 5-Bank Addressable FTD, 0–540 LPH
AF/C10/540	Chatlos 10-Bank Addressable FTD, 0–540 LPH
AF/C1350	Chatlos Addressable Flow Transducer, 0–1350 LPH
AF/C5/1350	Chatlos 5-Bank Addressable FTD, 0–1350 LPH
AF/C10/1350	Chatlos 10-Bank Addressable FTD, 0–1350 LPH
AF/C1420	Chatlos Addressable Flow Transducer 0–1420 LPH
AF/C5/1420	Chatlos 5-Bank Addressable FTD, 0–1420 LPH
AF/C10/1420	Chatlos 10-Bank Addressable FTD, 0–1420 LPH
AF/C2700	Chatlos Addressable Flow Transducer, 0–2700 LPH
AF/C5/2700	Chatlos 5-Bank Addressable FTD, 0–2700 LPH
AF/C10/2700	Chatlos 10-Bank Addressable FTD, 0–2700 LPH
AF/C2830	Chatlos Addressable Flow Transducer, 0–2830 LPH
AF/C5/2830	Chatlos 5-Bank Addressable FTD, 0–2830 LPH
AF/C10/2830	Chatlos 10-Bank Addressable FTD, 0–2830 LPH
Pressure—PSI	
AP/C	Chatlos Addressable PSI Pressure Transducer
AP/C5	Chatlos 5-Bank Addressable PSI Pressure Transducer
AP/C10	Chatlos 10-Bank Addressable PSI Pressure Transducer
AP/CH-PSI	Chatlos Addressable PSI High Pressure Transducer
AP/C5/H-PSI	Chatlos 5/10-Bank Addressable PSI High Pressure Transducer
Pressure—KPA	
AP/C-KPA	Chatlos Addressable KPA Pressure Transducer
AP/C5/KPA	Chatlos 5/10-Bank Addressable KPA Pressure Transducer
AP/CH-KPA	Chatlos Addressable KPA High Pressure Transducer
AP/C5/H-KPA	Chatlos 5/10-Bank Addressable KPA High Pressure Transducer

TABLE 3-7: CHATLOS ADDRESSABLE TRANSDUCER TYPES

UAMC Addressable Transducer Types	
Pressure	
AP/I	Inelcom Addressable mbar Pressure Transducer
AP/L	Lancier Addressable mbar Pressure Transducer
AP/M	Microsol Addressable mbar Pressure Transducer
AP/N	Nicotra Addressable mbar Pressure Transducer
AP/S730	Sparton Addressable mbar Pressure Transducer, 0-10 PSI
AP/S734	Sparton Addressable mbar Pressure Transducer, 0-14.5 PSI
Flow	
AF/S9.5	Sparton Addressable SCFH Flow Transducer, 0-9.5 SCFH
AF/S20	Sparton Addressable SCFH Flow Transducer, 0-20 SCFH
AF/S50	Sparton Addressable SCFH Flow Transducer, 0-50 SCFH
AF/S100	Sparton Addressable SCFH Flow Transducer, 0-100 SCFH

TABLE 3-8: ADDRESSABLE TRANSDUCER TYPES (UAMC-equipped 289H)

Dial-a-Ducer Transducer Types	
Flow—SCFH	
DF/9.5	Flow Transducer, 0-9.5 SCFH
DF/19.0	Flow Transducer, 0-19. SCFH
DF/47.5	Flow Transducer, 0-47.5 SCFH
DF/95.0	Flow Transducer, 0-95.0 SCFH
DF/475.0	Flow Transducer, 0-475.0 SCFH
DF/950.0	Flow Transducer, 0-950.0 SCFH
Flow—LPH	
DF/270	Flow Transducer, 0-270 LPH
DF/540	Flow Transducer, 0-540 LPH
DF/1350	Flow Transducer, 0-1350 LPH
DF/2700	Flow Transducer, 0-2700 LPH
DF/13500	Flow Transducer, 0-13500 LPH
DF/27000	Flow Transducer, 0-27000 LPH
Pressure—PSI	
DP/15.0	Pressure Transducer, gauge type
Pressure—KPA	
DP/100.0	Pressure Transducer, gauge type
Other Device Applications	
DT/167	Fahrenheit Temperature Transducer, (FT device type)
DI	Digital Input (CA device type); support the following values: 0x0 -> Logical 0 0xF -> Logical 1

TABLE 3-9: DIAL-A-DUCER TRANSDUCER TYPES