

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 71

Oct. 1, 1926

SALES OF PC CONTROLLERS

600 VOLT EQUIPMENTS

NO. EQUIPS.	TYPE	CUSTOMER	CONTROL
6	PC-2	Interborough Rapid Transit Co., (Subway Division), New York City.	Battery
3	PC-3	Lake Shore Electric Railway Co., Sandusky, Ohio.	Line
2	PC-3	Dayton & Troy Electric Railway Co., Tippecanoe City, Ohio.	Line
9	PC-5	Bay State Street Railway Co., Boston, Massachusetts.	Line
100	PC-5	Bay State Street Railway Co., Boston, Massachusetts. (Repeat Order)	Line
20	PC-5	International Railway Company, Buffalo, New York.	Line
4	PC-5	Cumberland County Power & Lt. Co., Portland, Maine.	Line
107	PC-5	Boston Elevated Railway Co., Boston, Massachusetts.	Battery
100	PC-5	Boston Elevated Railway Co., Boston, Massachusetts. (Repeat Order)	Battery
40	PC-5	Boston Elevated Railway Co., Boston, Massachusetts. (Repeat Order)	Battery
2	PC-5	Boston Elevated Railway Co., Boston, Massachusetts. (Repeat Order)	Battery
8	PC-5	Boston Elevated Railway Co., Boston, Massachusetts. (Repeat Order)	Battery

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 72

Oct. 1, 1926

NO. EQUIPS.	TYPE	CUSTOMER	CONTROL
8	PC-5	Boston Elevated Railway Co., Boston, Massachusetts (Repeat Order)	Battery
50	PC-5	Public Service Railway Co., Newark, New Jersey.	Line
7	PC-5	Buffalo & Lake Erie Traction Co., Erie, Pennsylvania. (Repeat Order)	Line
5	PC-5	Grand Rapids, Grand Haven & Muskegon Railway Co., Grand Rapids, Michigan. (Repeat Order)	Line
6	PC-5	Grand Rapids, Grand Haven & Muskegon Railway Co., Grand Rapids, Michigan. (Repeat Order)	Line
2	PC-5	Grand Rapids, Grand Haven & Muskegon Railway Co., Grand Rapids, Michigan. (Repeat Order)	Line
3	PC-5	Easton Transit Company. Easton, Pennsylvania.	Line
10	PC-5	Christ Church Tramways. Sydney, Australia.	Line
15	PC-5	Christ Church Tramways, Sydney, Australia. (Repeat Order)	Line
26	PC-5	Adelaide Tramways Trust, Adelaidia, Australia. (Repeat Order)	Line
26	PC-5	Adelaide Tramways Trust, Adelaidia, Australia. (Repeat Order)	Line
1	PC-5	Philadelphia & Western Railway Co., Philadelphia, Pennsylvania.	Line
2	PC-5	Philadelphia & Western Railway Co., Philadelphia, Pennsylvania. (Repeat Order)	Line

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 73

Oct. 1, 1926

NO. EQUIPS.	TYPE	CUSTOMER	CONTROL
2	PC-5	Oklahoma Union Traction Co., Tulsa, Oklahoma.	Line
6	PC-5	Schenectady Railway Co., Schenectady, New York.	Line
20	PC-5	Georgia Railway Lt. & Pwr. Co., Atlanta, Ga.	Line
20	PC-5	Georgia Railway Lt. & Pwr. Co., Atlanta, Ga. (Repeat Order)	Line
20	PC-5	Georgia Railway Lt. & Pwr. Co., Atlanta, Ga. (Repeat Order)	Line
1	PC-5	Chicago Surface Lines, Chicago, Illinois.	Line
1	PC-5	Prahran & Malvern Tramways Trust Company, Australia.	Line
13	PC-5	Boston & Worcester Street Railway Co., Boston, Massachusetts.	Line
12	PC-5	Hanshin Express Electric Rwy. Co., Japan.	Line
12	PC-5	Hanshin Express Electric Rwy. Co., Japan (Repeat Order)	Line
6	PC-5	Hanshin Express Electric Rwy. Co., Japan. (Repeat Order)	Line
6	PC-5	Hanshin Express Electric Rwy. Co., Japan. (Repeat Order)	Line
10	PC-5	Hanshin Express Electric Rwy. Co., Japan. (Repeat Order)	Line

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 74

Oct. 1, 1926

NO. EQUIPS.	TYPE	CUSTOMER	CONTROL
1	PC-5	Hanshin Express Electric Rwy. Co., Japan. (Repeat Order)	Line
40	PC-5	Hanshin Electric Railway Co., Japan. (Repeat Order)	Line
20	PC-5	Hanshin Electric Railway Co., Japan. (Repeat Order)	Line
5	PC-5	Osaka Koya Railway, Japan.	Line
3	PC-5	United Railways of Yucatan, Yucatan, Mexico.	250 Volt Battery
22	PC-5	Wilmington & Philadelphia Traction Co., Wilmington, Delaware	Line
100	PC-5	Philadelphia Rapid Transit Co , Philadelphia, Pennsylvania.	Line
30	PC-5	Philadelphia Rapid Transit Co., Philadelphia, Pennsylvania. (Repeat Order)	Line
2	PC-5	Texas Construction Company, Dallas, Texas.	Line
1	PC-5	University of Illinois, Illinois.	Line
6	PC-5	Mexico Tramways Company, Mexico, Mexico.	Line
1	PC-5	New South Wales Gov't Tramways, Sydney, Australia.	Line
25	PC-5	New South Wales Gov't Tramways, Sydney, Australia. (Repeat Order)	Line
75	PC-5	New South Wales Gov't Tramways, Sydney, Australia. (Repeat Order)	Line

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 75

Oct. 1, 1926

NO. EQUIPS.	TYPE	CUSTOMERS	TYPE	CONTROL
98	PC-5	New South Wales Gov't Tramways, Sydney, Australia. (Repeat Orders)	PC-5	Line
3	PC-5	New South Wales Gov't Tramways, Sydney, Australia. (Repeat Order)	PC-5	Line
1	PC-5	New South Wales Gov't, Sydney, Australia. (Repeat Order)	PC-5	Line
6	PC-5	Havana Central R.R. Co., Havana, Cuba.	PC-5	Line
8	PC-5	Havana Central R.R. Co., Havana, Cuba. (Repeat Order)	PC-5	Line
10	PC-5	Detroit United Railway, Detroit, Michigan.	PC-5	Line
10	PC-5	Detroit United Railway, Detroit, Michigan. (Repeat Order)	PC-5	Line
15	PC-6	Buffalo & Lake Erie Traction Co., Erie, Pennsylvania.	PC-6	Line
10	PC-6	Nagoya Electric Railway Co., Nagoya, Japan.	PC-6	Line
4	PC-6	Nagoya Electric Railway Co., Nagoya, Japan. (Repeat Order)	PC-6	Line
4	PC-6	Kyoto Electric Light Co., For Eizan Electric Rwy., Japan.	PC-6	Line
1	PC-7	Empire United Railways, Syracuse, New York	PC-7	Line
124	PC-8	Interborough Rapid Transit Co., (Subway Division), New York City.	PC-8	Battery

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 76

Oct. 1, 1926

NO. EQUIPS.	TYPE	CUSTOMER	TYPE	CONTROL
1	PC-9	Toledo Railways & Light Co., Toledo, Ohio.	PC-9	Line
14	PC-9	United Taction Co., Albany, New York.	PC-9	Line
200	PC-10	Interborough Rapid Transit Co., (Subway Division), New York City.	PC-10	Battery
168	PC-10	Interborough Rapid Transit Co., (Subway Division), New York City. (Repeat Order)	PC-10	Battery
100	PC-10	Interborough Rapid Transit Co., (Subway Division), New York City. (Repeat Order)	PC-10	Battery
150	PC-10	Interborough Rapid Transit Co., (Subway Division), New York City. (Repeat Order)	PC-10	Battery
40	PC-10	Boston Elevated Railway Co., Boston, Mass.	PC-10	Line
25	PC-10	Boston Elevated Railway Co., Boston, Mass. (Repeat Order)	PC-10	Line
19	PC-10	New York Central Railroad Co., New York City.	PC-10	Line
12	PC-10	New York Central Railroad Co., New York City. (Repeat Order)	PC-10	Line
15	PC-10	New York Central Railroad Co., New York City. (Repeat Order)	PC-10	Line
30	PC-10	New York Central Railroad Co., New York City. (Repeat Order)	PC-10	Line

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 77

Oct. 1, 1926

NO. EQUIPS.	TYPE	CUSTOMER	TYPE	CONTROL
1	PC-10	New York Central Railroad Co., New York City. (Repeat Order)	PC-11	Line
29	PC-10	New York Central Railroad Co., New York City. (Repeat Order)	PC-11	Line
10	PC-10	New York Central Railroad Co., New York City. (Repeat Order)	PC-11	Line
10	PC-10	Metropolitan Elevated Rwy. Co., Chicago, Ill.	PC-11	Line
20	PC-10	Chicago Rapid Transit, Chicago, Ill. (Repeat Order)	PC-11	Line
12	PC-10	Metropolitan Underground Railway, Madrid, Spain.	PC-11	Line
25	PC-10	Hudson & Manhattan Railway Co., Jersey City, N. J.	PC-11	Line
25	PC-10	Hudson & Manhattan Railway Co., Jersey City, N. J. (Repeat Order)	PC-11	Line
25	PC-10	Hudson & Manhattan Railway Co., Jersey City, N. J. (Repeat Order)	PC-11	Line
80	PC-10	Baltimore & Ohio R.R. Co. for Staten Island Rapid Transit, Staten Island, N. Y.	PC-11	Battery
10	PC-10	Baltimore & Ohio R.R. Co. for Staten Island Rapid Transit, Staten Island, N. Y. (Repeat Order)	PC-11	Battery
1	PC-11	Boston Elevated Railway Co., Boston, Massachusetts.	PC-11	Line
1	PC-11	Grand Rapids, Grand Haven & Muskegon Railway Company, Grand Rapids, Michigan	PC-11	Line

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 78

Oct. 1, 1926

NO. EQUIPS.	TYPE	CUSTOMER	TYPE	CONTROL
10	PC-11	Grand Rapids, Grand Haven & Muskegon Railway Company, Grand Rapids, Michigan. (Repeat Order)	PC-10	Line
1	PC-11	Grand Rapids Railway Company, Grand Rapids, Michigan.	PC-10	Line
16	PC-12	Metropolitan Underground Railway, Madrid, Spain.	PC-10	Line
1	PC-12	Boston Elevated Railway Co., Boston, Massachusetts.	PC-10	Line
10	PC-12	Metropolitan Alfonso XIII, Madrid, Spain.	PC-10	Line
10	PC-12	Metropolitan Alfonso XIII, Madrid, Spain. (Repeat Order)	PC-10	Line
13	PC-12	Metropolitan Alfonso XIII, Madrid, Spain. (Repeat Order)	PC-10	Line
5	PC-12	Metropolitan Alfonso XIII, Madrid, Spain. (Repeat Order)	PC-10	Line
1	PC-12	Cia Francais Thompson Houston, France.	PC-10	Line
1	PC-12	Bamberger Electric Railway, Salt Lake City, Utah.	PC-10	Line
1	PC-12	Fonda, Johnstown & Gloversville R.R. (Elec. Div.) Gloversville, N. Y.	PC-10	Line
50	PC-12	Pacific Electric Railway, Los Angeles, California.	PC-10	Line
8	PC-12	Interstate Public Service Co., Indianapolis, Indiana.	PC-11	Line
3	PC-12	Interstate Public Service Co., Indianapolis, Indiana. (Repeat Order)	PC-11	Line

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 79

Oct. 1, 1926

NO. EQUIPS.	TYPE	CUSTOMER	TYPE	CONTROL
2	PC-12	Interstate Public Service Co., Indianapolis, Indiana. (Repeat Order)	PC-12	Line
2	PC-12	Interstate Public Service Co., Indianapolis, Indiana. (Repeat Order)	PC-101	Line
1	PC-12	Interstate Public Service Co., Indianapolis, Indiana. (Repeat Order)	PC-101	Line
1	PC-12	Differential Steel Car Co., Findlay, Ohio.	PC-101	Line
10	PC-12	Osaka Danki, Osaka, Japan.	PC-101	Line
11	PC-12	Hanshin Express, Japan	PC-101	Line
10	PC-12	Tokyo Underground, Tokyo, Japan.	PC-101	32 V. Battery
2	PC-13	British Thompson Houston Co., Rugby, England.	PC-101	Line
20	PC-14	Nankai Railway Company, Japan.	PC-101	Line
10	PC-14	Nankai Railway Company, Japan. (Repeat Order)	PC-101	Line
21	PC-14	Nankai Railway Company, Japan. (Repeat Order)	PC-101	Line
15	PC-14	Nankai Railway Company, Japan. (Repeat Order)	PC-101	Line
14	PC-14	Keiser Electric Railway Co., Japan.	PC-101	Line
4	PC-15	New York Rapid Transit Corp., Brooklyn, N. Y.	PC-101	Battery

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 80

Oct. 1, 1926

NO. EQUIPS.	TYPE	CUSTOMER	CONTROL
134	PC-15	New York Rapid Transit Corp., Brooklyn, N. Y. (Repeat Order)	Battery
600/1200 VOLT EQUIPMENTS			
4	PC-101	Michigan Railway Company, Kalamazoo, Michigan.	Battery 60 V.
2	PC-101	Pittsburgh, Harmony Butler & New Castle Railway Company, Harmony, Penn.	MG Set 32 V.
15	PC-101	Hershey Cuban Rwy., Cuba.	MG Set 32 V.
1	PC-101	Central California Traction Co., San Francisco, Cal.	Control Resistor
12	PC-101	Cataluna Railways, Spain.	MG Set 32 V.
4	PC-101	Texas Electric Railway Co., Dallas, Texas.	MG Set 32 V.
10	PC-101	Barcelona Underground Railway, Spain.	MG Set 32 V.
6	PC-101	Southern Pacific Co. (Alameda & Berkley), Berkley, Cal.	CDM Set 600 V.
6	PC-101	Southern Pacific Co. (Alamada & Berkley), Berkley, Cal. (Repeat Order)	CDM Set 600 V.
6	PC-101	Cienfuegos Railway, Cuba.	MG Set 32 V.
750/1500 VOLT EQUIPMENTS			
6	PC-101	Salt Lake, Garfield & Western Railway Co., Salt Lake City, Utah.	MG Set 32 V.
6	PC-101	Southern Pacific Railway, Portland, Eugene & Eastern, Portland, Oregon	Dynamotor Compressor

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 80.1
Oct. 1, 1926

NO. EQUIPS.	TYPE	CUSTOMER	CONTROL
2	PC-101	Shiboura Eng. Works, Japan.	MG Set 32 V.
3	PC-101	Toronto Suburban Railway Co., Toronto, Canada.	MG Set 32 V.
1	PC-101	Toronto Suburban Railway Co., Toronto, Canada. (Repeat Order)	MG Set 32 V.

1500 VOLT EQUIPMENTS

80	PC-103	Paris Orleans Railway, France.	MG Set 72 V.
2	PC-103	Paris Orleans Railway, France. (Repeat Order)	MG Set 72 V.
10	PC-103	Java State Railways, Java.	MG Set 65 V.
5	PC-103	Java State Railways, Java (Repeat Order)	MG Set 65 V.
131	PC-103	Illinois Central R.R. Chicago, Ill.	MG Set 37 V.
41	PC-101	French State Rwys., France.	MG Set 72 V.
8	PC-101	Ibigawa Electric Company, Japan.	MG Set 32 V.
2	PC-101	Ibigawa Electric Company, Japan. (Repeat Order)	MG Set 32 V.
18	PC-101	Kobe Himeji Electric Railway, Japan.	MG Set 32 V.
13	PC-101	Ferrocarril Metropolitan, De Barcelona, Spain.	MG Set 32 V.

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 81

Oct. 1, 1926

SALES OF P.C. CONTROLLERS

SUBWAY & ELEVATED, RAPID TRANSIT—600 V.

Total Controllers 1274
Including the following larger orders:—

Company	No. of Orders	Total Controllers
Interborough Rapid Transit	6	744
New York Central R.R.	7	116
Chicago Elevated R.R.	2	30
Hudson & Manhattan	3	75
Boston Elevated	2	65
New York Rapid Transit Corp.	2	138
B. & O. (Staten Island)	2	90

RAPID TRANSIT SERVICE—1200 & 1500 V.

Total Controllers 394
Including the following larger orders:—

Company	No. of Orders	Total Controllers
Southern Pacific R.R.	3	18
Paris Orleans R.R., France	2	82
French State R.R., France	1	41
Illinois Central R.R., Chicago	1	131

HEAVY INTERURBAN SERVICE—600 V.

Total Controllers 256
Including the following larger orders:—

Company	No. of Orders	Total Controllers
Metropolitan, Alfonso XIII, Spain	4	38
Pacific Electric R.R.	1	50
Interstate Public Service Co.	5	16
Nanki Ry., Japan	4	66

(Cont'd)

ENGINEERING REPORT ON CONTROL EQUIPMENT

Section III Page 82

Oct. 1, 1926

LIGHT INTERURBAN OR CITY SERVICE—600 V.

Total Controllers 1197
Including the following larger orders:—

Company	No. of Orders	Total Controllers
Philadelphia Rapid Transit	2	130
Bay State R.R., Boston	2	109
Boston Elevated, Boston	6	427
Georgia Rwy. Lt. & Power	3	60
Hanshin Express Elect. Rwy., Japan	8	107
New South Wales Govt. Rwy.	6	203
TOTAL OF P.C. CONTROLLER SALES		3121

Company	No. of Orders	Total Controllers
Illinois Central R.R., Chicago	1	131
French State R.R., France	1	41
Paris Orleans R.R., France	2	82
Southern Pacific R.R.	3	18
Total		280

Company	No. of Orders	Total Controllers
Nankai Rwy., Japan	4	88
Interstate Public Service Co.	2	10
Pacific Electric R.R.	1	20
Metropolitan Edison XII, Spain	4	38
Total		156