

TECHNICAL INDICATORS - BRAZIL AND GLOBAL MARKETS

| Indexes | Price | | Recommendation | | SMA10d | SMA20d | SMA30d | SMA50d | SMA100d | SMA200d | MACD | Signal | Diff. | TAS (W=5) | TAS (D=3) | RSI (9) |
|---|------------|------------|----------------|--|------------|------------|------------|------------|------------|------------|---------|---------|--------|-----------|-----------|---------|
| | 20-Jan-23 | Short Term | Long Term | | | | | | | | | | | | | |
| Bovespa | 112,040.64 | SELL | BUY | | 110,999.50 | 109,402.50 | 108,035.90 | 109,015.70 | 111,159.80 | 108,885.70 | 961.82 | 445.04 | 516.78 | 72.20 | 80.03 | 63.90 |
| IPC (Mexico) | 53,952.24 | SELL | BUY | | 53,009.65 | 51,401.43 | 50,984.53 | 51,131.39 | 48,995.32 | 49,222.80 | 879.32 | 635.12 | 244.20 | 86.38 | 53.88 | 70.83 |
| Dow Jones | 33,375.49 | NEUTRAL | BUY | | 33,650.04 | 33,392.48 | 33,442.07 | 33,572.12 | 32,211.20 | 32,375.97 | 76.76 | 89.84 | -13.08 | 30.61 | 12.58 | 39.52 |
| S&P 500 | 3,972.61 | NEUTRAL | BUY | | 3,928.51 | 3,881.54 | 3,899.17 | 3,925.67 | 3,865.27 | 3,971.92 | 12.90 | 3.54 | 9.36 | 67.05 | 26.62 | 46.91 |
| Nasdaq Comp | 11,140.43 | SELL | SELL | | 10,816.91 | 10,637.82 | 10,748.33 | 10,896.93 | 11,012.30 | 11,583.92 | 34.54 | -31.78 | 66.32 | 80.19 | 45.10 | 53.22 |
| Eurostoxx 50 | 4,119.90 | BUY | SELL | | 4,112.11 | 3,985.93 | 3,953.07 | 3,942.39 | 3,718.62 | 3,684.60 | 74.42 | 64.67 | 26.05 | 9.76 | 34.30 | 58.61 |
| Shanghai Comp | 3,264.81 | SELL | BUY | | 3,204.75 | 3,152.89 | 3,147.89 | 3,141.18 | 3,117.71 | 3,168.15 | 33.03 | 20.81 | 12.22 | 96.78 | 85.34 | 82.47 |
| Nikkei | 26,553.53 | SELL | SELL | | 26,287.56 | 26,246.33 | 26,714.21 | 27,222.66 | 27,288.46 | 27,235.96 | -217.97 | -318.31 | 100.34 | 75.37 | 78.16 | 53.25 |
| Currencies / Cripto/ Bonds | 20-Jan-23 | Short Term | Long Term | | SMA10d | SMA20d | SMA30d | SMA50d | SMA100d | SMA200d | MACD | Signal | Diff. | TAS (W=5) | TAS (D=3) | RSI (9) |
| Dollar Index | 101.98 | NEUTRAL | SELL | | 102.98 | 103.37 | 103.73 | 104.74 | 108.00 | 106.41 | -0.86 | -0.81 | -0.05 | 32.75 | 39.60 | 29.93 |
| Brazilian Real | 5.21 | SELL | BUY | | 5.17 | 5.24 | 5.24 | 5.27 | 5.25 | 5.16 | -0.03 | -0.02 | -0.01 | 74.31 | 76.64 | 50.14 |
| Euro | 1.0858 | SELL | BUY | | 1.08 | 1.07 | 1.07 | 1.06 | 1.02 | 1.03 | 0.01 | 0.00 | 7.83 | 57.07 | 68.20 | |
| Japanese Yen | 129.52 | NEUTRAL | SELL | | 129.73 | 131.11 | 132.39 | 134.81 | 140.10 | 136.72 | -1.86 | -1.85 | -0.01 | 52.64 | 37.27 | 42.75 |
| Bitcoin | 22,278.91 | SELL | SELL | | 20,446.16 | 18,680.73 | 18,021.10 | 17,635.83 | 18,015.67 | 19,578.41 | 1237.14 | 862.15 | 374.99 | 92.33 | 63.51 | 87.70 |
| US 10-Year Bond Rate | 3.48 | NEUTRAL | BUY | | 3.49 | 3.63 | 3.62 | 3.63 | 3.72 | 3.33 | -0.07 | -0.05 | -0.02 | 61.69 | 30.34 | 43.89 |
| Commodities (US\$) | 20-Jan-23 | Short Term | Long Term | | SMA10d | SMA20d | SMA30d | SMA50d | SMA100d | SMA200d | MACD | Signal | Diff. | TAS (W=5) | TAS (D=3) | RSI (9) |
| WTI Oil | 81.86 | SELL | SELL | | 78.35 | 79.03 | 76.83 | 78.40 | 80.39 | 85.68 | 0.73 | 0.05 | 0.68 | 81.94 | 69.34 | 68.20 |
| Brent Oil | 87.75 | SELL | BUY | | 84.10 | 82.94 | 81.82 | 83.90 | 88.23 | 98.10 | 0.81 | -0.03 | 0.84 | 97.56 | 68.78 | 67.27 |
| Gold Spot | 1,926.94 | SELL | BUY | | 1,902.99 | 1,863.51 | 1,841.54 | 1,810.65 | 1,742.10 | 1,777.67 | 36.12 | 32.23 | 3.89 | 73.97 | 73.82 | 72.51 |
| Silver Spot | 23.93 | NEUTRAL | SELL | | 23.81 | 23.79 | 23.69 | 22.90 | 21.12 | 21.07 | 0.27 | 0.34 | -0.07 | 56.94 | 37.59 | 54.05 |
| Copper (LME) | 9,305.50 | BUY | SELL | | 9,087.85 | 8,723.38 | 8,623.30 | 8,445.48 | 8,042.92 | 8,413.80 | 260.34 | 190.62 | 69.72 | | | 78.57 |
| Brazilian Shares (R\$) | 20-Jan-23 | Short Term | Long Term | | SMA10d | SMA20d | SMA30d | SMA50d | SMA100d | SMA200d | MACD | Signal | Diff. | TAS (W=5) | TAS (D=3) | RSI (9) |
| Industrials | | | | | | | | | | | | | | | | |
| Vale (VALE3) | 93.99 | SELL | SELL | | 93.06 | 90.79 | 89.33 | 86.54 | 78.40 | 78.17 | 2.22 | 2.31 | -0.08 | 84.49 | 79.68 | 70.15 |
| Petrobras (PETR3) | 29.83 | SELL | SELL | | 27.82 | 27.65 | 27.20 | 28.09 | 31.86 | 32.98 | 0.10 | -0.25 | 0.35 | 96.55 | 86.77 | 67.00 |
| Petrobras (PETR4) | 26.37 | SELL | BUY | | 24.56 | 24.31 | 23.92 | 24.65 | 28.33 | 29.78 | 0.11 | -0.20 | 0.30 | 91.70 | 79.66 | 65.06 |
| Ultrapar (UGPA3) | 12.62 | NEUTRAL | SELL | | 12.71 | 12.52 | 12.45 | 12.88 | 12.95 | 13.04 | 0.02 | -0.06 | 0.08 | 46.53 | 58.29 | 55.99 |
| Gerdau (GGBR4) | 33.20 | SELL | SELL | | 32.11 | 30.73 | 30.71 | 30.51 | 27.74 | 26.91 | 0.86 | 0.56 | 0.30 | 74.05 | 80.53 | 77.44 |
| Braskem (BRKM5) | 21.46 | BUY | BUY | | 23.07 | 23.19 | 23.51 | 25.67 | 28.36 | 33.68 | -0.81 | -0.90 | 0.09 | 6.58 | 6.07 | 33.51 |
| Weg (WEGE3) | 37.33 | BUY | BUY | | 38.15 | 38.12 | 37.84 | 38.26 | 35.71 | 31.77 | 0.06 | 0.07 | -0.01 | 6.35 | 23.81 | 47.91 |
| Cia Siderurgica Nacional (CSNA3) | 17.83 | SELL | BUY | | 16.88 | 15.72 | 15.20 | 14.87 | 14.09 | 16.21 | 0.78 | 0.64 | 0.14 | 84.08 | 88.28 | 76.06 |
| Usiminas (USIM5) | 8.29 | SELL | SELL | | 7.85 | 7.47 | 7.45 | 7.54 | 7.65 | 8.90 | 0.17 | 0.08 | 0.09 | 100.00 | 84.99 | 68.94 |
| Metalurgica Gerdau (GOAU4) | 14.56 | SELL | SELL | | 14.05 | 13.52 | 13.49 | 13.34 | 12.05 | 11.45 | 0.37 | 0.25 | 0.12 | 78.18 | 86.94 | 76.34 |
| Pulp & Paper | | | | | | | | | | | | | | | | |
| Suzano Papel e Celulose (SUZB3) | 47.14 | BUY | SELL | | 50.15 | 49.28 | 50.05 | 52.13 | 49.69 | 49.88 | -0.26 | -0.46 | 0.20 | | 12.82 | 43.61 |
| Klabin (KLBN4) | 3.94 | BUY | SELL | | 4.04 | 4.01 | 4.03 | 4.13 | 4.02 | 4.05 | -0.01 | -0.02 | 0.01 | 27.27 | 57.01 | 50.35 |
| Holdings | | | | | | | | | | | | | | | | |
| Bradespar (BRAP4) | 32.03 | SELL | SELL | | 31.50 | 30.63 | 30.17 | 29.07 | 26.43 | 26.39 | 0.82 | 0.80 | 0.01 | 82.07 | 77.89 | 69.72 |
| Electricity | | | | | | | | | | | | | | | | |
| Engie Brasil Energia | 38.16 | BUY | SELL | | 38.27 | 37.90 | 37.82 | 38.63 | 39.13 | 40.84 | 0.09 | -0.12 | 0.21 | 24.44 | 55.69 | 58.04 |
| Cemig (CMIG4) | 11.37 | NEUTRAL | BUY | | 11.43 | 11.19 | 11.06 | 11.05 | 11.24 | 11.23 | 0.17 | 0.10 | 0.07 | 40.74 | 61.53 | 64.77 |
| EDP (ENBR3) | 20.20 | SELL | SELL | | 19.88 | 20.08 | 20.08 | 20.55 | 21.54 | 21.60 | -0.17 | -0.25 | 0.08 | 74.36 | 77.20 | 52.95 |
| Centrais Electricas Brasileiras (ELET3) | 40.98 | BUY | SELL | | 41.57 | 41.65 | 41.78 | 43.15 | 44.63 | 44.14 | -0.42 | -0.59 | 0.16 | 21.85 | 40.80 | 50.06 |
| Centrais Electricas Brasileiras (ELET6) | 42.72 | BUY | SELL | | 43.17 | 43.16 | 43.47 | 45.41 | 46.86 | 45.36 | -0.50 | -0.78 | 0.28 | 24.26 | 46.76 | 54.13 |
| Food & Bev | | | | | | | | | | | | | | | | |
| Ambev (ABEV3) | 13.53 | NEUTRAL | SELL | | 14.00 | 14.20 | 14.50 | 15.06 | 15.30 | 14.85 | -0.38 | -0.35 | -0.03 | 39.77 | 50.88 | 36.54 |
| BRF (BRFS3) | 7.90 | NEUTRAL | BUY | | 8.25 | 7.98 | 7.72 | 8.64 | 11.46 | 13.25 | -0.16 | -0.19 | 0.03 | 55.70 | 36.72 | 43.45 |
| JBS (JBSS3) | 21.60 | NEUTRAL | BUY | | 22.00 | 21.68 | 21.34 | 22.19 | 24.33 | 29.11 | -0.05 | -0.08 | 0.03 | 57.14 | 46.88 | 49.57 |
| Marfrig Global Foods (MRFG3) | 8.19 | NEUTRAL | BUY | | 8.39 | 8.28 | 8.00 | 8.61 | 10.01 | 12.60 | -0.03 | -0.06 | 0.03 | 48.94 | 39.73 | 49.38 |
| Financial | | | | | | | | | | | | | | | | |
| Itaú (ITUB4) | 26.10 | NEUTRAL | BUY | | 25.95 | 25.31 | 24.90 | 25.49 | 26.94 | 25.82 | 0.28 | 0.05 | 0.23 | 58.27 | 82.56 | 67.39 |
| Itaúsa Investimentos (ITSA3) | 8.99 | NEUTRAL | BUY | | 9.01 | 8.94 | 8.87 | 8.97 | 9.05 | 8.81 | 0.02 | 0.00 | 0.03 | 58.06 | 77.42 | 60.34 |
| Itaúsa Investimentos (ITSA4) | 8.58 | NEUTRAL | BUY | | 8.63 | 8.52 | 8.40 | 8.57 | 8.80 | 8.54 | 0.04 | 0.00 | 0.04 | 50.00 | 63.60 | 58.45 |
| Banco do Brasil (BBSA3) | 40.07 | SELL | BUY | | 36.27 | 35.23 | 34.56 | 34.84 | 37.48 | 36.58 | 0.83 | 0.29 | 0.54 | 95.38 | 91.50 | 79.98 |
| Banco Bradesco (BBD3) | 12.86 | NEUTRAL | BUY | | 13.09 | 13.11 | 12.96 | 13.05 | 14.71 | 15.07 | -0.07 | -0.09 | 0.02 | 34.88 | 58.19 | 51.61 |
| Banco Bradesco (BBD4) | 14.67 | NEUTRAL | BUY | | 14.90 | 14.82 | 14.61 | 14.89 | 17.32 | 17.99 | -0.14 | 0.06 | 0.43 | 43.40 | 53.53 | 51.61 |
| Santander Brasil (SANB11) | 29.16 | NEUTRAL | SELL | | 29.75 | 28.88 | 28.12 | 28.07 | 29.22 | 30.15 | 0.49 | 0.46 | 0.03 | 48.65 | 51.00 | 55.05 |
| Banco BTG Pactual (BPAC11) | 21.30 | BUY | BUY | | 22.64 | 22.93 | 22.63 | 23.64 | 24.13 | 24.44 | -0.39 | -0.38 | -0.01 | 9.30 | 41.22 | 44.06 |
| Banrisul (BRIS6) | 9.65 | NEUTRAL | SELL | | 9.59 | 9.60 | 9.54 | 9.85 | 10.78 | 10.46 | -0.07 | -0.12 | 0.05 | 52.73 | 71.66 | 63.42 |
| Banco Pan (BPAN4) | 5.42 | BUY | BUY | | 5.70 | 5.89 | 5.91 | 6.33 | 6.89 | 7.28 | -0.23 | -0.22 | -0.01 | 11.11 | 22.68 | 36.76 |
| Cielo (CIEL3) | 4.86 | NEUTRAL | BUY | | 4.94 | 5.00 | 4.87 | 4.87 | 5.19 | 4.60 | 0.00 | 0.01 | -0.01 | 36.17 | 45.39 | 45.49 |
| Brasil Bolsa Balcão (B3SA3) | 12.77 | BUY | BUY | | 12.99 | 12.84 | 12.50 | 12.49 | 13.06 | 12.63 | 0.15 | 0.11 | 0.04 | 18.87 | 32.81 | 53.31 |
| BB Seguridade Part (BBSE3) | 35.04 | SELL | SELL | | 34.23 | 33.72 | 33.15 | 32.28 | 30.45 | 28.50 | 0.69 | 0.64 | 0.05 | 73.74 | 88.23 | 72.03 |
| Qualicorp Consultoria e Corretora Seg (QUAL3) | 5.48 | BUY | BUY | | 6.11 | 6.02 | 5.81 | 5.95 | 7.24 | 9.64 | -0.07 | 0.00 | -0.07 | 18.89 | 15.70 | 36.10 |
| Retail | | | | | | | | | | | | | | | | |
| Luzas Renner (LREN3) | 20.55 | NEUTRAL | BUY | | 20.22 | 20.15 | 20.25 | 21.68 | 24.99 | 25.20 | -0.36 | -0.61 | 0.25 | 59.89 | 55.64 | 56.10 |
| Raia Drogasil (RADL3) | 24.06 | NEUTRAL | BUY | | 24.02 | 23.74 | 23.44 | 24.40 | 23.43 | 22.08 | 0.21 | 0.16 | 0.06 | 44.26 | 61.15 | 62.16 |
| Cia Brasileira de Distr. (PCAR3) | 19.15 | NEUTRAL | SELL | | 18.28 | 17.58 | 17.55 | 18.20 | 19.53 | 19.42 | 0.20 | 0.06 | 0.25 | 68.59 | 53.06 | 61.71 |
| Magazine Luiza (MGLU3) | 3.82 | NEUTRAL | BUY | | 3.33 | 2.98 | 2.88 | 3.09 | 3.81 | 3.77 | 0.19 | 0.05 | 0.14 | 69.23 | 70.69 | 72.42 |
| Telecoms | | | | | | | | | | | | | | | | |